October 22, 2004

Ms. Grace Cheng
Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118-3686

Subject: Olympic Sunnyvale Station, 750 South Bernardo Avenue, Sunnyvale, California

Dear Ms. Cheng:

Attached for your review and comment is a copy of the Post-Remedial Soil Boring Installation Report, for the above-referenced site. The report, prepared by ETIC Engineering, Inc. (ETIC) of Pleasant Hill, California, presents the results of the installation of two soil borings on September 3, 2004. The scope of work was conducted in general accordance with the Work Plan for Post-remedial Action Soil Boring Installation, prepared by ETIC, dated August 2004 (ETIC 2004b), and approved by the Santa Clara Valley Water District (SCVWD).

The purpose of the investigation was to assess the post-remediation concentrations of hydrocarbons remaining in soil and groundwater in the vicinity of two areas on the property that historically have had relatively high hydrocarbon concentrations and to confirm the effectiveness of the soil vapor extraction (SVE) system that had been operational at the site.

Based on the results of this investigation and in anticipation of environmental closure for this site, ETIC recommends a review for case closure. Following are reasons supporting this request:

- Soil samples collected during the post-remedial activities soil boring installation (SB1 and SB2) contained no detectable concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g) or benzene. In 1991, prior to SVE activities at the site, TPH-g and benzene were detected in soil samples collected from borings B1 and B4 (located adjacent to borings SB1 and SB2) at concentrations as high as 12,000 and 4,200 milligrams per kilogram (mg/kg), respectively, in boring B1, and 1,600 and 2,500 mg/kg, respectively, in boring B4.

- Based on a review of quarterly monitoring and sampling at the site, it appears that minimal hydrocarbon-impacted groundwater is limited to the northern portion of the underground storage tanks at the locations of boring SB1 and well EW2.

- Concentrations of petroleum hydrocarbons (Total Petroleum Hydrocarbons as gasoline and benzene) in groundwater have remained below laboratory detection limits in all wells, except well EW2, since November 2003.

- Concentrations of TPH-g have decreased by two to three orders of magnitude in well EW2 from the highest detection of 230,000 micrograms per liter (μg/L) in September 1997 to the lowest detection of 110 μg/L in September 2004.

- During the last four quarters of monitoring, concentrations of TPH-g in groundwater in well EW2 have remained in the range of 110 μg/L (September 2004) to 1,800 μg/L (May 2004).

Both groundwater monitoring and confirmation soil borings indicate that remedial efforts at the site have been successful. With the continued decreasing hydrocarbon concentration trends in groundwater and the extremely successful removal of hydrocarbons from the vadose zone, no further action is deemed to be necessary. Please consider our request for a review of case closure.

If you have any questions or comments, please contact Ms. Sherris R. Prall of ETIC Engineering, Inc. at (925) 602-4710, extension 20.

Sincerely,

Fred Hill
c\o Hill & Company Realtors
700 South Bernardo Avenue
Sunnyvale, California 94087

cc: Ms. Sherris R. Prall, ETIC Engineering, Inc. (without attachment)

Post-Remedial Soil Boring Installation Report

Olympic Sunnyvale Station
750 South Bernardo Avenue
Sunnyvale, California

Prepared for

Fred Hill
c/o Hill & Company Realtors
700 South Bernardo Avenue
Sunnyvale, California 94087

Prepared by

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

Sherris R. Prall — October 21, 2004

Sherris R. Prall
Project Manager — Date

W. Charles Lawrence — October 19, 2004

W. Charles Lawrence, R.G. #7238, C.H.G. #729
Senior Project Hydrogeologist — Date

REGISTERED GEOLOGIST
WILLIAM C LAWRENCE
No. 7238
Exp 11/04
STATE OF CALIFORNIA

October 2004

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SITE CONTACTS

Site Owner/Responsible Party:	Fred Hill c/o Hill & Company Realtors 700 South Bernardo Avenue Sunnyvale, California 94087 (408) 736-5900
Tenant:	Ali Nasouti Olympic Sunnyvale 750 South Bernardo Sunnyvale, California 94086 (408) 735-8416
Consultant to Site Owner:	ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, California 94523 (925) 602-4710
ETIC Project Manager:	Sherris R. Prall
Regulatory Oversight:	Grace Cheng Santa Clara Valley Water District 5750 Almaden Expressway San Jose, California 95118 (408) 265-2607 extension 2769

1.0 INTRODUCTION

Fred Hill of Hill & Company Realtors retained ETIC Engineering Inc. (ETIC) to conduct post-remedial site assessment activities at the subject property, located at 750 South Bernardo Avenue in Sunnyvale, California (Figure 1). This scope of work was conducted in general accordance with the approved work plan for post-remedial action soil boring installation, prepared by ETIC, dated August 2004 (ETIC 2004b), and regulatory concurrence (Appendix A) by the Santa Clara Valley Water District (SCVWD).

1.1 PURPOSE

The purpose of the investigation was to assess the post-remediation concentrations of hydrocarbons remaining in soil and groundwater in the vicinity of two areas on the subject property, which historically have had relatively high hydrocarbon concentrations and to confirm the effectiveness of the soil vapor extraction (SVE) system that had been operational at the site.

1.2 SCOPE OF WORK

The scope of work for this site assessment included the following tasks:

- Obtaining permits for the drilling and subsequent backfilling of two soil borings at the subject property from the SCVWD,
- Utilization of a MARL-12 mobile drilling rig equipped with 8-inch hollow-stem augers to drill two soil borings to approximately 95 feet below ground surface (bgs), for the purposes of collecting post-remedial soil and groundwater samples,
- Submittal of selected soil and groundwater samples to a state-certified laboratory for the chemical analysis of Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE), using EPA Method 8260B, and
- Preparation of this report presenting the results and findings of the above activities.

2.0 SITE BACKGROUND

The site is located in the northwest section of the Santa Clara Valley on the fringe of the Sunnyvale commercial district (Figure 1). There are commercial establishments to the north and northwest, but residential development is the predominant land use to the east, south, and west. The site contains a service station building in the northeast sector, pump islands to the west of the building, and a single 20,000-gallon, multicell, underground storage tank (UST) to the south (Figure 2).

Sediments underlying the site consist primarily of permeable silt, sand, and gravel, with minor amounts of sediments containing clay. Depth to groundwater at the site has ranged from 69.40 (6/98, MW3) to 99.89 (9/93, MW1) feet bgs, and the historical groundwater flow direction has been generally north-northeast.

The site history includes the following:

- In January 1987, an unauthorized release of unleaded gasoline was first discovered from the product delivery lines of the four USTs, formerly located south of the station building onsite. Soil contamination was confirmed by a series of subsequent investigations (Blaine 1987 and McCall 1987).

- In June 1991, four shallow soil borings, two deep soil borings, and monitoring well MW1 were installed adjacent to the USTs (ETIC 1991).

- In August 1992, the two 8,000-gallon and two 5,000-gallon unleaded gasoline USTs were removed. The contaminated soil beneath the tanks was overexcavated to 32 feet bgs in September 1992. The pit was backfilled with clean fill to 12 feet bgs and the excavated soil was aerated, sampled, and properly disposed (ETIC 1993a).

- In the spring of 1993, a double-walled, multicompartment, 20,000-gallon tank was installed in the same location as the former USTs (ETIC 1993a).

- In April 1993, SVE wells EW1 and EW2 were installed. Based on a May 1993 SVE pilot test, wells MW1, EW1, and EW2 were connected to a propane-powered internal combustion engine, and the SVE system was started in March 1995 (ETIC 1993b).

- In January 1995, quarterly groundwater monitoring began at the site. The most recent monitoring event was conducted by ETIC in May 2004 (ETIC 2004a).

- In early 1997, the SVE system was shut down for additional site characterization and SVE system evaluation. The SVE system was restarted utilizing only well EW2 after product was discovered in well EW2.

- In September 1997, monitoring wells MW2 and MW3 were installed (ETIC 1997).

- In December 1998, monitoring wells MW4 and MW5 and air sparge well AS1 were installed. A pilot air sparging test was conducted by injecting compressed air into well AS1 (ETIC 1999a and ETIC 1999b).

- In September 1999, a constant rate groundwater pumping test was performed using well MW2 (ETIC 1999c).

- In March 2001, the SVE system was shut down for system upgrades. An electric catalytic oxidizer vapor abatement system was installed, and the system was restarted in October 2002, extracting from wells EW1 and EW2. Since the SVE system was used, approximately 20,704 pounds of hydrocarbons have been removed.

- In April 2004, the SVE system was turned off due to declining concentrations and the need to operate the catalytic oxidizer at the destruction efficiency required by the Bay Area Air Quality Management District. After one month, the system was restarted for three weeks to test for a possible rebound of hydrocarbons. The system was shut down on 10 June 2004.

- In August 2004, ETIC prepared and submitted a Work Plan for Post-Remedial Action Soil Boring Installation (ETIC 2004b). The work plan presented a scope of work that would assess the current extent of hydrocarbon-impacted soil and groundwater in areas that have historically had relatively high concentrations of hydrocarbons, and to confirm the effectiveness of the SVE system that had been operational at the subject property.

3.0 ENVIRONMENTAL SETTING

The following sections include discussions of the topographic, geologic, and hydrogeologic conditions in the vicinity of the subject site.

3.1 TOPOGRAPHY

Based on a review of the USGS Cupertino, California, 7.5-minute quadrangle map (USGS 1991), the subject property is situated at an elevation of approximately 152 feet above mean sea level. The general site vicinity slopes gently to the north-northeast.

3.2 GEOLOGY

The site is located in the northwestern portion of the Santa Clara Valley. The foothills of the Santa Cruz Mountains are located 2.7 miles to the southwest and the San Francisco Bay approximately 4.25 miles to the north of the site.

The Santa Clara Valley occupies the southern portion of a northwesterly trending structural trough, which lies between two major branches of the San Andreas System. These are the San Andreas Fault Zone to the west and the Hayward Fault Zone to the east. Vertical movements along these fault zones have produced the valley and adjacent hills. The San Francisco Bay occupies the central portion of this trough.

The geology of the hills bordering the Bay is very complex. It consists of predominantly sedimentary and metamorphic rocks ranging in age from Jurassic to Quaternary, and is in places highly deformed, folded, and faulted. In some places, igneous rock has intruded into the sedimentary sequence.

Downward warping of the bedrock surface to considerable depths in the center of the Bay structural depression has allowed the gradual accumulation of a thick section of overlying sediments. Unconsolidated or slightly consolidated Quaternary- and upper Pliocene-age freshwater sediments of the Santa Clara formation outcrop along a narrow strip from Palo Alto to Los Gatos adjacent to the hills in the site area.

The plains and baylands of the Santa Clara Valley continue north as the San Mateo plains and baylands on the western side of the San Francisco Bay and the Alameda plains and baylands on the eastern side of the bay. The valley narrows from approximately 15 miles in width at the southern terminus of San Francisco Bay to 0.5 mile in width at Coyote Gap, approximately 20 miles to the southeast.

The Santa Clara Valley is underlain by interbedded Quaternary-age alluvial and bay deposits consisting of gravel, sand, silt, and some clay. The deposits are coarsest adjacent to the mountains and become finer toward the bay. Adjacent to the mountains, sediments deposited in alluvial fans consist primarily of fanglomerates, conglomeratic sand, gravelly sand, and coarse sand. These fan deposits fine bayward and interfinger and grade bayward into finer grained fluvial sediments consisting of sand and silt with some sandy/silty clay. These fluvial sediments

interfinger and grade bayward into progressively finer grained fluvial and paludal sediments, which in turn grade into and interfinger with predominantly fine-grained (clay/bay mud) sediments deposited in the Bay.

During glacial stages, when the sea level was lower, extensive gravel and sand layers and other fluvial deposits were probably deposited in the center of the depression. During the interglacial stages, when the Bay depression was partially inundated, extensive clay layers were deposited.

Coyote Creek, the principal drainage running through the valley from the south has its headwaters in the Diablo Range on the east side of the valley. The Guadalupe River, Los Gatos Creek, San Tomas Aquino Creek, Saratoga Creek, Calabazas Creek, Stevens Creek, and Permanente Creek are major drainages that originate in the Santa Cruz Mountains and drain into the valley from the south and west. Drainage systems originating in the Diablo Range include Penitencia and Berryessa Creeks (Pampeyan 1993).

3.3 HYDROGEOLOGY

The nearest watercourse is Stevens Creek, located approximately 0.5 mile to the west. Calabazas Creek is located approximately 3.75 miles to the east. Other than the beds of these watercourses, the nearest groundwater recharge facilities are located approximately 3.6 miles to the south at Bubb and McClellan Roads in Cupertino. Groundwater flow is generally to the north, towards San Francisco Bay (DWR 1967).

The site lies on the bayward edge of an alluvial fan associated with Stevens Creek. Based on examination of soil boring logs, sediments underlying the site consist primarily of permeable silt, sand, and gravel, with minor amounts of sediments containing clay. The first widespread clay at the site with sufficient thickness to affect vertical migration is found at approximately 85 feet. Depth to groundwater in the early 1990s was in excess of 100 feet bgs. Since that time groundwater elevations have risen significantly.

4.0 SITE ASSESSMENT ACTIVITIES

ETIC personnel supervised the drilling and sampling of two soil borings on the subject property on 3 September 2004. The drilling locations were selected to evaluate the post-remedial concentrations of petroleum hydrocarbons in soil and groundwater in the vicinity of two existing soil borings (B1 and B4 completed in 1991), which contained relatively high concentrations of petroleum hydrocarbons prior to remedial activities at the subject property. The pre- and post-remedial soil boring locations are shown on Figure 2. The following section describes the site assessment activities conducted at the subject property.

4.1 PRE-FIELD ACTIVITIES

Prior to conducting field activities, ETIC obtained drilling permits from the SCVWD for the two soil borings on the subject property. Copies of the approved permits are in Appendix B. ETIC contacted Underground Service Alert (USA) to mark out the location of underground utilities within the vicinity of the proposed drilling locations. For further confirmation of the locations of potential underground utilities, ETIC contracted the services of a private subsurface utility locating company to clear the proposed boring locations. The proposed location for boring SB1 was moved approximately ten feet to the southwest due to the presence of underground utility lines.

4.2 DRILLING AND SAMPLING OF SOIL BORINGS

On 3 September 2004, ETIC personnel supervised the drilling and sampling of two post-remedial soil borings, identified as SB1 and SB2. Soil boring locations are shown on Figure 2.

Prior to drilling activities, ETIC personnel manually drilled each boring location to a depth of approximately 8 feet bgs using a hand auger to ensure that no subsurface utilities were present. After the soil borings were "cleared" of subsurface utilities, drilling activities were subsequently conducted by Gregg Drilling, a state-certified well drilling contractor (C57 license number 485-165), utilizing a MARL-12 mobile drilling rig equipped with 8-inch-diameter hollow stem augers.

During drilling, soil samples were collected for lithologic classification, chemical analysis, and screening for the presence of organic vapors using a photoionization detector (PID). Soil samples were generally collected at approximately 5-foot intervals from 5 feet bgs to the total depth of the borings, approximately 95 feet bgs. Soil samples were collected using a California split-spoon sampler, which was driven approximately 18 inches in advance of the hollow stem auger by a 140-pound hammer falling 30 inches. The sampler was retrieved from the soil boring, and the least disturbed soil sample was covered on both ends with Teflon® sheeting, sealed with plastic end caps, placed in a chilled cooler with ice, and transported under chain-of-custody protocol to Severn Trent Laboratories (STL) for chemical analysis. Soil cuttings were logged by an ETIC field geologist using the Unified Soil Classification System. Lithologic details and PID readings are included on the boring logs in Appendix C. Soil samples were selected for chemical analysis based on field screening measurements and/or depth of sample collection relative to pre-remedial soil samples collected from borings B1 and B4 (Figure 2).

Groundwater was encountered during drilling activities at a depth of approximately 80 feet bgs. Groundwater samples were collected from both of the soil borings by lowering a new, disposable bailer down into the soil boring through the hollow stem augers. Groundwater samples were then decanted from the bailer into laboratory-supplied, Teflon® septum-sealed, 40-millimeter, glass vials in such a manner that there was no head space or air bubbles remaining. The sample containers were then labeled, placed in a chilled cooler with ice, and transported under chain-of-custody protocol to STL for chemical analysis.

Drilling and sampling equipment were decontaminated between uses and soil borings using a high-pressure and/or dilute Liquinox solution to minimize the possibility of cross-contamination.

Upon completion of drilling and sampling, each soil boring was backfilled with neat Portland cement grout under the direct supervision of a representative of the SCVWD. A copy of general field protocols for drilling using hollow stem augers and boring logs are presented in Appendix C.

4.3 WASTE DISPOSAL

Soil cuttings generated during drilling activities were placed on and covered with visqueen plastic sheets on the subject property. Four grab soil samples were collected from the stockpiled soil and submitted under chain-of-custody protocol to STL for chemical analysis. The stockpiled soil will be disposed of at an appropriate facility.

5.0 CHEMICAL ANALYSIS AND RESULTS

Selected soil samples and groundwater samples from soil borings SB1 and SB2 were placed in a chilled cooler with ice, and transported under chain-of-custody protocol to STL for the chemical analysis of TPH-g, BTEX, and MTBE using EPA Method 8260B.

5.1 SOIL SAMPLE RESULTS

Five soil samples collected from soil boring SB1 at depths of approximately 40, 50, 60, 70, and 95 feet bgs, and four soil samples collected from soil boring SB2 at depths of approximately 65, 75, 80, and 90 feet bgs, were submitted for chemical analysis. These soil samples were submitted for analysis based on their depths relative to soil samples collected from pre-remedial soil borings (B1 and B4) that previously contained elevated concentrations of petroleum hydrocarbons.

- No detectable concentrations of TPH-g or benzene were identified in any of the soil samples selected for chemical analysis from borings SB1 or SB2.

- Concentrations of toluene were only detected in one soil sample collected during these assessment activities, which was collected from boring SB1 (SB1, 69.5-70 at 23 micrograms per kilogram [μg/kg]) at a depth of approximately 70 feet bgs. Toluene was not detected in the deeper sample from boring SB1.

- Concentrations of ethylbenzene were only detected in one soil sample collected during these assessment activities, which was collected from boring SB1 (SB1, 69.5-70 at 23 μg/kg) at a depth of approximately 70 feet bgs. Ethylbenzene was not detected in the deeper sample from boring SB1.

- Total xylenes were detected in two soil samples, borings SB1, 69.5-70 and SB2, 59.5-90, at concentrations of 140 μg/kg and 7.6 μg/kg, respectively.

- Concentrations of MTBE were only detected in one soil sample collected during these assessment activities, which was collected from boring SB2 (SB2, 74.5-75 at 56 μg/kg) at a depth of approximately 75 feet bgs. MTBE was not detected in the deeper samples from boring SB2.

The results of laboratory chemical analysis of soil samples collected during these assessment activities are summarized in Table 1 and illustrated on Figure 3. For comparison purposes, the analytical results of soil samples collected from pre-remedial soil borings B1 and B4 in 1991 (located adjacent to SB1 and SB2) are also presented on Figure 3. Laboratory analytical reports and chain-of-custody documentation are presented in Appendix D.

5.2 GROUNDWATER SAMPLE RESULTS

Groundwater samples collected from both of the soil borings were submitted for chemical analysis.

- TPH-g was detected in groundwater samples collected from borings SB1 and SB2 at concentrations of 4,900 and 140 micrograms per liter (μg/L), respectively.

- Benzene was detected in groundwater samples collected from borings SB1 and SB2 at concentrations of 1.5 and 2.7 μg/L, respectively.

- Toluene was detected in groundwater samples collected from borings SB1 and SB2 at concentrations of 50 and 7.6 μg/L, respectively.

- Ethylbenzene was detected in groundwater samples collected from borings SB1 and SB2 at concentrations of 91 and 3.1 μg/L, respectively.

- MTBE was detected in the groundwater sample collected from boring SB2 at a concentration of 6.9 μg/L.

The results of laboratory chemical analysis of groundwater samples collected during these assessment activities are summarized in Table 2 and illustrated on Figure 4. Laboratory analytical reports and chain-of-custody documentation are presented in Appendix D.

6.0 SUMMARY AND CONCLUSIONS

The following findings are based on the results of ETIC's field activities and laboratory analytical results.

6.1 LITHOLOGY

During this investigation, lithologies encountered consisted primarily of silty clay and silts with minor layers of gravelly sand from ground surface to approximately 44 feet bgs. Below approximately 44 feet bgs, the soils encountered tended to be more coarse-grained, consisting of sands with gravels with some silt and clay. In general, soils encountered during these assessment activities appear to be consistent with soils encountered during previous drilling operations at the site and with published data on the geologic conditions of the site vicinity.

6.2 GROUNDWATER

Groundwater was initially encountered at a depth of approximately 80 feet bgs, and static water levels at the time of sampling were measured at approximately 78.5 feet bgs. This data appears to be consistent with previous depth-to-water measurements collected from the site during quarterly monitoring and sampling activities.

6.3 SOIL SAMPLING RESULTS

Soil samples collected during this investigation contained no detectable concentrations of TPH-g or benzene. In 1991, prior to SVE activities at the site, TPH-g and benzene were detected in soil samples collected from borings B1 and B4 (located adjacent to borings SB1 and SB2) at elevated concentrations. The highest concentration of TPH-g detected in boring B1, prior to remedial activities was 12,000 milligrams per kilogram (mg/kg) at a depth of approximately 40 feet bgs. The soil sample collected from the same depth in boring SB1, after remedial activities, contained no detectable concentrations of TPH-g. Likewise, the highest concentration of TPH-g detected in boring B4 prior to remedial activities was 1,600 mg/kg at a depth of approximately 75 feet bgs. The soil sample collected from the same depth in boring SB2, after remedial activities, contained no detectable concentrations of TPH-g.

Based on these results, it appears that the remedial activity at the site, consisting of SVE since 1995, has been successful in removing hydrocarbon mass from the subject site.

6.4 GROUNDWATER SAMPLING RESULTS

Concentrations of petroleum hydrocarbons were detected in groundwater samples collected from borings SB1 and SB2 at concentrations consistent with the results of groundwater samples collected from well EW2, located adjacent to boring SB2. However, based on a review of quarterly monitoring and sampling at the site, it appears that hydrocarbon-impacted groundwater is limited to the northern portion of the underground storage tanks. Quarterly groundwater samples collected from the remaining wells on the subject property have not contained detectable

concentrations of TPH-g or benzene since November 2003. Cumulative groundwater analytical results for all of the groundwater monitoring wells are presented in Table 3.

7.0 RECOMMENDATIONS

It appears that remedial efforts at the subject property have been successful, and that post-remedial concentrations of hydrocarbons in soil are dramatically less (not detected) compared to concentrations detected prior to remedial efforts. Also, it appears that hydrocarbon-impacted groundwater is limited to a relatively small area on the subject property on the north side of the UST's.

Based on this information, it does not appear that additional environmental investigations and/or remedial efforts at the site will provide any new or substantial information that would warrant the required time and expense.

Therefore, rather then conducting additional assessment or remedial activities at the site, ETIC recommends conducting four quarters of groundwater monitoring and sampling of the existing wells at the subject property, beginning with the May 2004 sampling event.

Since analytical data indicate non-detectable, stabilized, and/or steadily decreasing concentrations of TPH-g and benzene, ETIC requests environmental site closure from the SCVWD for this property.

8.0 LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions at the time of this assessment. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which ETIC has no control. Further assessment of potential adverse environmental impacts from past onsite and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. ETIC should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended for the exclusive use of Fred Hill c/o Hill & Company Realtors. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

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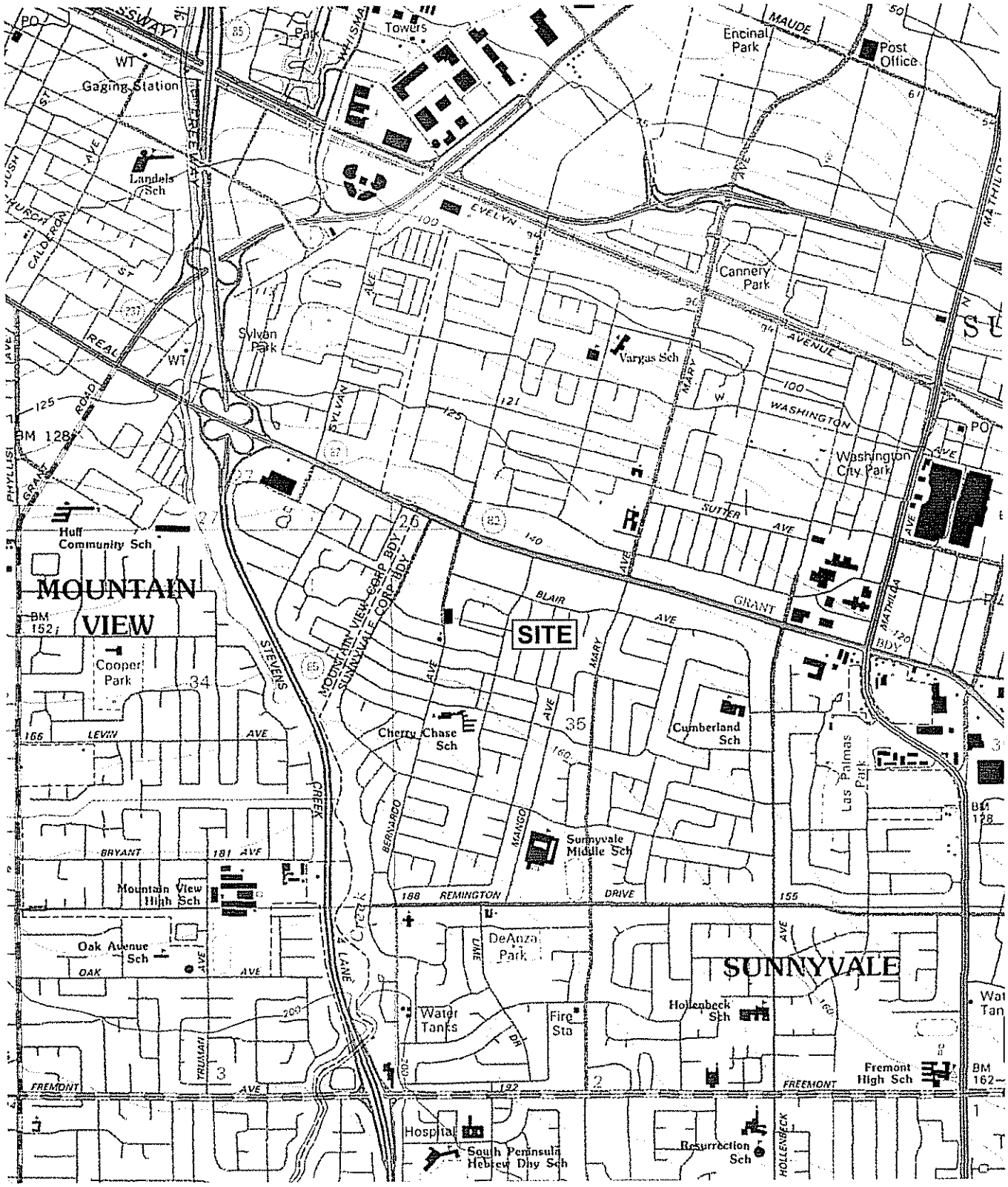
United States Geological Survey, 1991, Cupertino, California: 7.5-minute series (topographic), Scale 1:24,000.

FIGURES



SOURCE: USGS Topography Map

0 2000

Scale (feet)

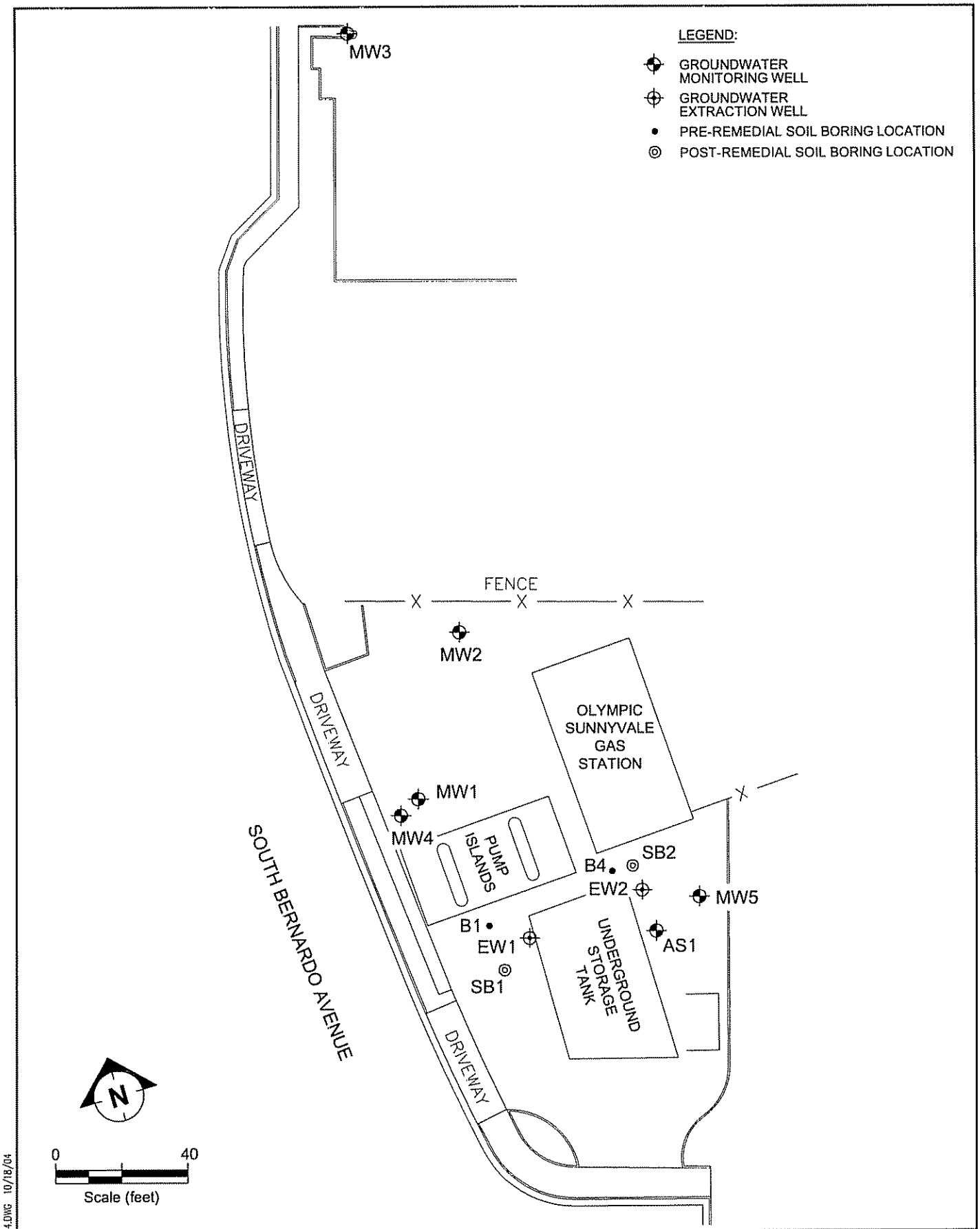
N

ETIC ENGINEERING

SITE LOCATION AND TOPOGRAPHY MAP
OLYMPIC SUNNYVALE STATION
750 SOUTH BERNARDO AVENUE
SUNNYVALE, CALIFORNIA

FIGURE: 1

FILENAME: TOPO1002.DWG 04/28/03

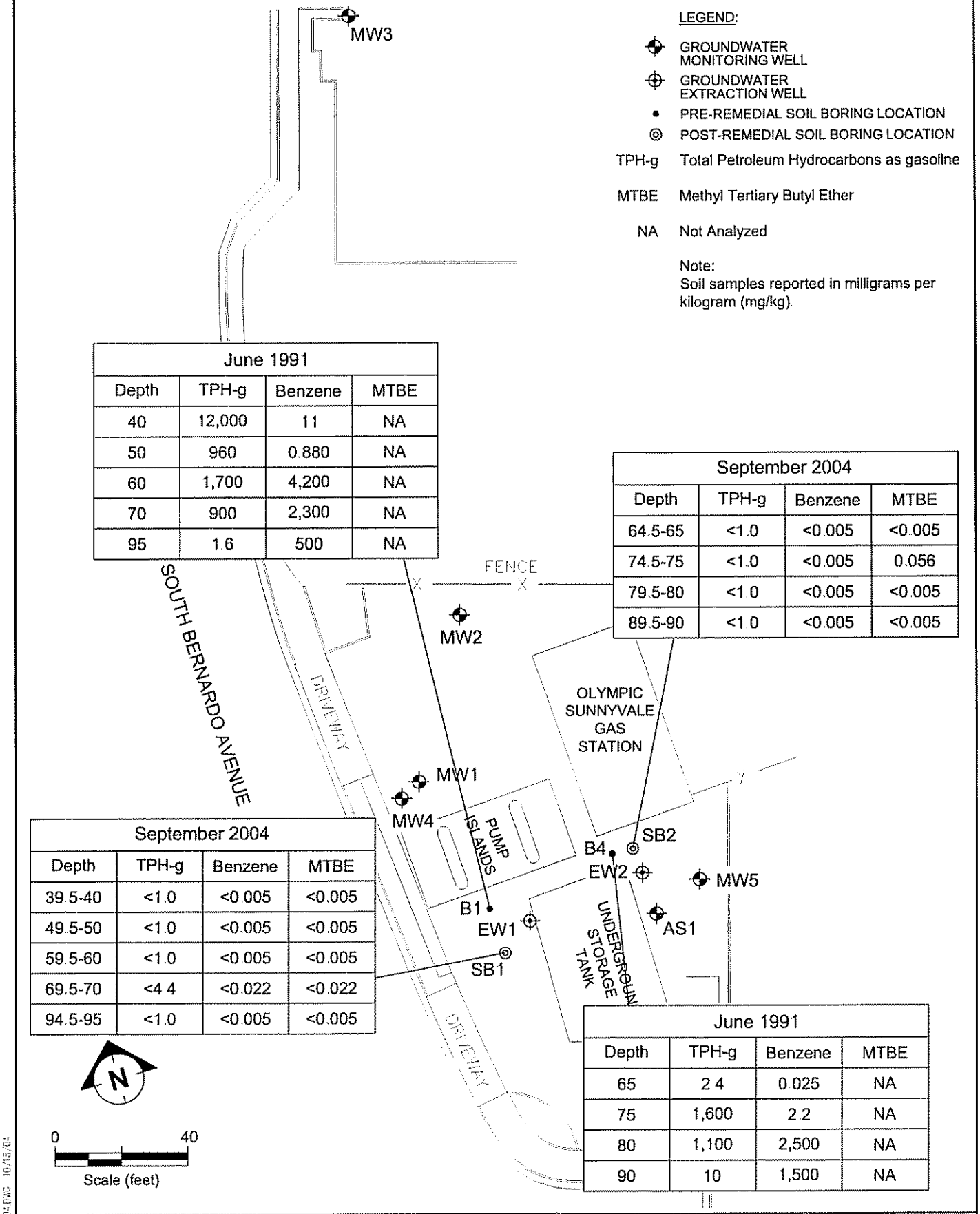


FILENAME: SITEPLAN1004.DWG 10/18/04

ETIC ENGINEERING

SITE PLAN AND SOIL BORING LOCATION MAP
OLYMPIC SUNNYVALE STATION
750 SOUTH BERNARDO AVENUE
SUNNYVALE, CALIFORNIA

FIGURE: 2



June 1991			
Depth	TPH-g	Benzene	MTBE
40	12,000	11	NA
50	960	0.880	NA
60	1,700	4,200	NA
70	900	2,300	NA
95	1.6	500	NA

September 2004			
Depth	TPH-g	Benzene	MTBE
64.5-65	<1.0	<0.005	<0.005
74.5-75	<1.0	<0.005	0.056
79.5-80	<1.0	<0.005	<0.005
89.5-90	<1.0	<0.005	<0.005

September 2004			
Depth	TPH-g	Benzene	MTBE
39.5-40	<1.0	<0.005	<0.005
49.5-50	<1.0	<0.005	<0.005
59.5-60	<1.0	<0.005	<0.005
69.5-70	<4.4	<0.022	<0.022
94.5-95	<1.0	<0.005	<0.005

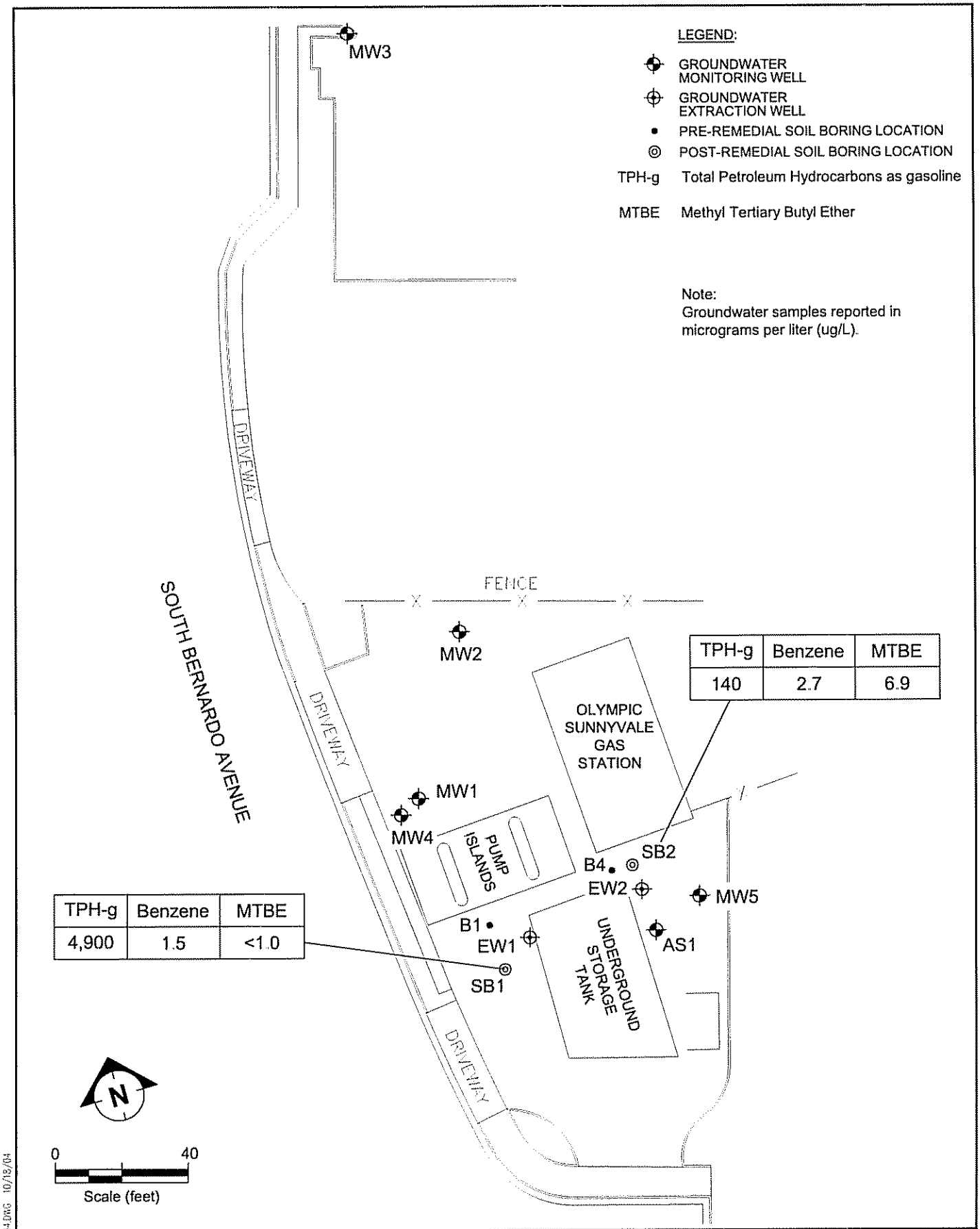
June 1991			
Depth	TPH-g	Benzene	MTBE
65	2.4	0.025	NA
75	1,600	2.2	NA
80	1,100	2,500	NA
90	10	1,500	NA

ETIC ENGINEERING

SOIL SAMPLE ANALYTICAL RESULTS
OLYMPIC SUNNYVALE STATION
750 SOUTH BERNARDO AVENUE
SUNNYVALE, CALIFORNIA

FIGURE: 3

FILENAME: SHEPLAN1004.DWG 10/15/04

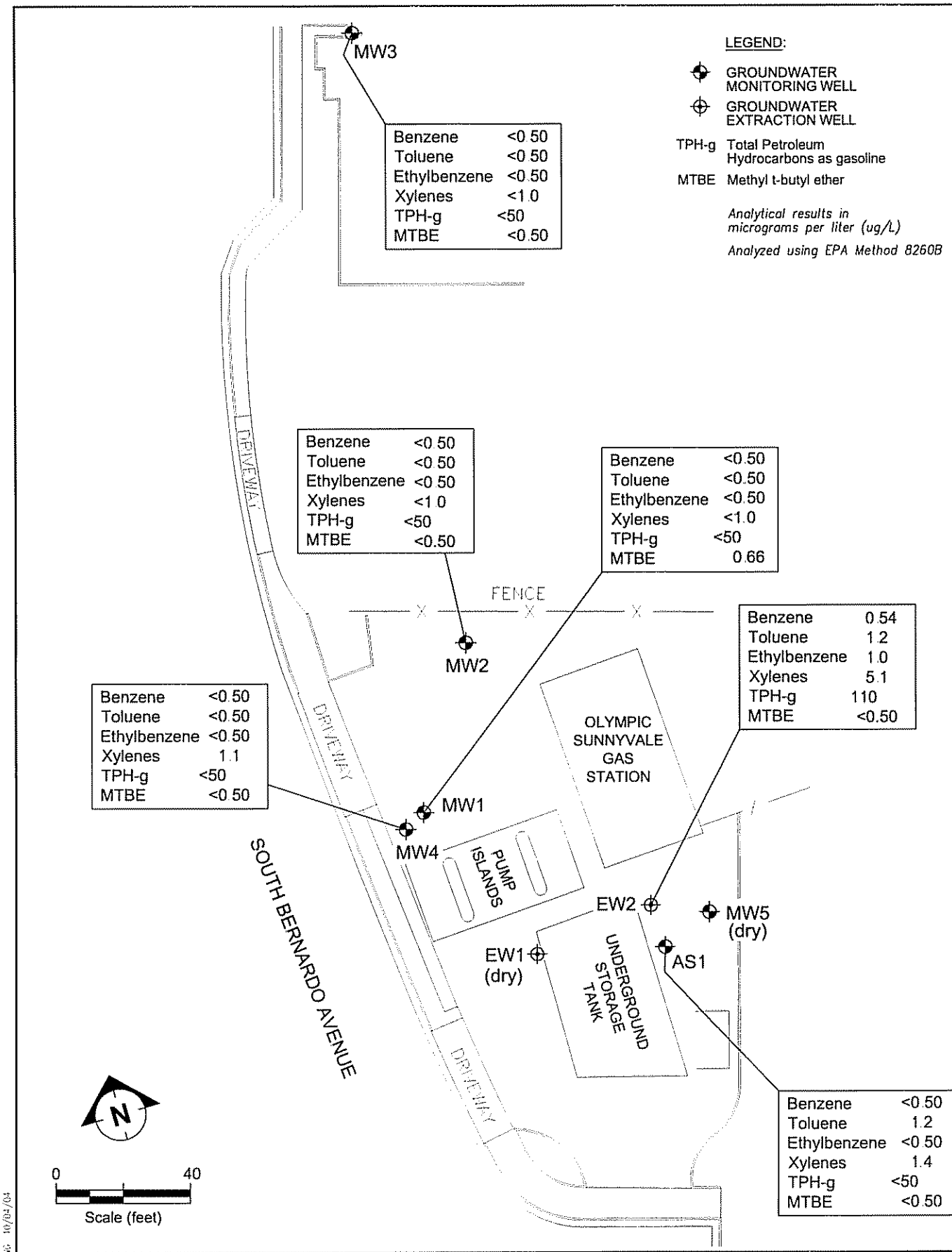


ETIC ENGINEERING

GROUNDWATER SAMPLE ANALYTICAL RESULTS
OLYMPIC SUNNYVALE STATION
750 SOUTH BERNARDO AVENUE
SUNNYVALE, CALIFORNIA

FIGURE: 4

FILENAME: SITEPLAN0804.DWG 10/18/04



FILENAME: QMRG0904.DWG 10/04/04

ETIC ENGINEERING

SITE PLAN SHOWING GROUNDWATER ANALYTICAL RESULTS
OLYMPIC SUNNYVALE STATION
750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA
25 AUGUST 2004

FIGURE: 5

TABLES

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS
OLYMPIC SUNNYVALE STATION
SUNNYVALE, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (fbg)	DATE OF SAMPLING	TPH-g (µg/kg) [8260B]	BENZENE (µg/kg) [8260B]	TOLUENE (µg/kg) [8260B]	ETHYL-BENZENE (µg/kg) [8260B]	TOTAL XYLENES (µg/kg) [8260B]	MTBE (µg/kg) [8260B]
SB1, 39 5-40	39 5-40	09/02/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB1, 49 5-50	49 5-50	09/02/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB1, 59 5-60	59 5-60	09/02/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB1, 69 5-70	69 5-70	09/02/2004	ND<4,400	ND<22	**23**	**23**	**140**	ND<22
SB1, 94 5-95	94 5-95	09/02/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB2, 64 5-65	64 5-65	09/03/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB2, 74 5-75	74 5-75	09/03/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	**56**
SB2, 79 5-80	79 5-80	09/03/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0
SB2, 89 5-90	89 5-90	09/03/2004	ND<1,000	ND<5 0	ND<5 0	ND<5 0	**7.6**	ND<5 0

ABBREVIATIONS:

fbg	Feet below grade.
µg/kg	Micrograms per kilogram (parts per billion).
ND	Not detected at or above reported detection limit
TPH-g	Total Petroleum Hydrocarbons as gasoline.
MTBE	Methyl tertiary butyl ether

NOTES:

Analyzed using EPA Method 8260B.
Bold indicates detectable concentrations of analyte.

TABLE 2 - GROUNDWATER SAMPLE ANALYTICAL RESULTS
OLYMPIC SUNNYVALE STATION
SUNNYVALE, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (fbg)	DATE OF SAMPLING	TPH-g (µg/kg) [8260B]	BENZENE (µg/kg) [8260B]	TOLUENE (µg/kg) [8260B]	ETHYL-BENZENE (µg/kg) [8260B]	TOTAL XYLENES (µg/kg) [8260B]	MTBE (µg/kg) [8260B]
SB1, 80	80	09/02/2004	**4,900**	**1.5**	**50**	**91**	**530**	<1.0
SB2, 80	80	09/03/2004	**140**	**2.7**	**7.6**	**3.1**	**15**	**6.9**

ABBREVIATIONS:

fbg	Feet below grade.
µg/l	Micrograms per liter (parts per billion).
ND	Not detected at or above reported detection limit.
TPH-g	Total Petroleum Hydrocarbons as gasoline.
MTBE	Methyl tertiary butyl ether.

NOTES:

Analyzed using EPA Method 8260B.
Bold indicates detectable concentrations of analyte.

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well	Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1	09/21/93	150.98	99.89	51.09		4,600	130	500	330	15,000	--
MW1	08/04/94	150.98	94.78	56.20		4,500	190	130	300	4,000	--
MW1	01/23/95	150.98	94.46	56.52		<5.0	22	<5.0	31	580	--
MW1	05/18/95	150.98	87.47	63.51		2,100	380	400	15,800	9,100	--
MW1	09/08/95	150.98	85.60	65.38		2,800	2,900	1,500	7,200	28,000	--
MW1	12/04/95	150.98	85.38	65.60		5,900	13,000	3,200	14,000	25,000	--
MW1	03/11/96	150.98	83.51	67.47		46	38	47	110	550	--
MW1	06/12/96	150.98	78.02	72.96		15	1.8	<0.50	3.4	70	--
MW1	11/20/96	150.98	79.70	71.28		17	<0.50	<0.50	<0.50	88	--
MW1	03/13/97	150.98	74.68	76.30		3.0	<0.50	<0.50	<0.50	61	<5.0
MW1	06/20/97	150.98	72.92	78.06		0.67	<0.50	<0.50	0.7	<50	<5.0
MW1	09/17/97	150.98	76.84	74.14		<0.50	<0.50	<0.50	1.0	69	<5.0
MW1	12/18/97	150.98	76.92	74.06		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	03/17/98	150.98	72.24	78.74		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	06/15/98	150.98	70.10	80.88		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	08/20/98	150.98	70.60	80.38		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	12/28/98	150.98	70.98	80.00		--	--	--	--	--	--
MW1	09/08/99	150.98	73.50	77.48		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	12/28/99	150.98	75.02	75.96		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	03/20/00	150.98	74.86	76.12		<0.50	<0.50	<0.50	1.6	<50	<5.0
MW1	06/27/00	150.98	74.86	76.12		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	09/21/00	150.98	76.49	74.49		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	12/26/00	150.98	76.49	74.49		1.3	15	3.4	24	110	<5.0
MW1	02/21/01	150.98	75.96	75.02		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	05/17/01	150.98	73.94	77.04	0.00	4.8	3.2	<0.50	4.7	<50	<5.0
MW1	09/06/01	150.98	77.42	73.56	0.00	<0.50	1.4	0.54	3.6	<50	<5.0
MW1	12/07/01	150.98	78.17	72.81	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	02/25/02	150.98	75.35	75.63	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	05/13/02	150.98	74.90	76.08	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	08/09/02	150.60	76.89	73.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	11/11/02	150.60	78.49	72.11	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	02/10/03	150.60	76.95	73.65	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	04/22/03	150.60	75.46	75.14	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1		08/18/03	150.60	76.37	74.23	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1		11/14/03	150.60	77.96	72.64	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW1	b	02/02/04	150.60	76.14	74.46	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW1	b	05/04/04	150.60	75.17	75.43	0.00	<0.50	<0.50	<0.50	<1.0	<50	0.66
MW1	b	08/25/04	150.60	77.20	73.40	0.00	<0.50	<0.50	<0.50	<1.0	<50	0.66
MW2		09/17/97	151.08	77.06	74.02		140	9.1	42	82	970	8.8
MW2		12/18/97	151.08	77.10	73.98		240	10	91	88	1,600	16
MW2		03/17/98	151.08	72.48	78.60		59	0.62	13	7.8	370	12
MW2		06/15/98	151.08	70.32	80.76		9.3	<0.50	2.40	3.1	260	<5.0
MW2		08/20/98	151.08	70.76	80.32		9.9	<0.50	<0.50	1.0	<50	<5.0
MW2		12/28/98	151.08	71.14	79.94		16	1.5	0.69	2.2	<50	30
MW2		09/08/99	151.08	73.61	77.47		2.5	<0.50	<0.50	2.0	180	<5.0
MW2		12/28/99	151.08	75.20	75.88		1.3	< 0.5	< 0.5	1.1	110	<5.0
MW2		03/20/00	151.08	75.02	76.06		<0.50	<0.50	<0.50	<0.50	71	<5.0
MW2		06/27/00	151.08	75.03	76.05		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		09/21/00	151.08	76.62	74.46		1.4	<0.50	<0.50	<0.50	61	<5.0
MW2		12/26/00	151.08	76.64	74.44		<0.50	<0.50	<0.50	<0.50	76	<5.0
MW2		02/21/01	151.08	76.13	74.95		<0.50	<0.50	<0.50	<0.50	160	<5.0
MW2		05/17/01	151.08	74.13	76.95	0.00	<0.50	<0.50	<0.50	<0.50	65	<5.0
MW2		09/06/01	151.08	77.57	73.51	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		12/07/01	151.08	79.26	71.82	0.00	3.7	0.79	0.96	1.4	110	<5.0
MW2		02/25/02	151.08	75.55	75.53	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		05/13/02	151.08	75.10	75.98	0.00	2.0	<0.50	<0.50	1.1	70	<5.0
MW2		08/09/02	150.64	77.00	73.64	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		11/11/02	150.64	78.66	71.98	0.00	0.63	<0.50	<0.50	1.1	<50	<5.0
MW2		02/10/03	150.64	77.15	73.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		04/22/03	150.64	75.62	75.02	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		08/18/03	150.64	76.51	74.13	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW2		11/14/03	150.64	78.09	72.55	0.00	<0.50	0.71	<0.50	<0.50	<50	<5.0
MW2	b	02/02/04	150.64	76.28	74.36	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW2	b	05/04/04	150.64	75.33	75.31	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW2	b	08/25/04	150.64	77.38	73.26	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW3		09/17/97	149.82	76.22	73.60		1.4	<0.50	<0.50	0.8	80	<5.0
MW3		12/18/97	149.82	76.60	73.22		1.0	0.62	<0.50	<0.50	<50	<5.0
MW3		03/17/98	149.82	71.54	78.28		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		06/15/98	149.82	69.40	80.42		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		08/20/98	149.82	69.80	80.02		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		12/28/98	149.82	70.18	79.64		<0.50	<0.50	<0.50	<0.50	<50	12
MW3		09/08/99	149.82	72.69	77.13		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		12/28/99	149.82	74.16	75.66		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		03/20/00	149.82	74.00	75.82		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		06/27/00	149.82	74.02	75.80		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		09/21/00	149.82	75.55	74.27		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		12/26/00	149.82	75.63	74.19		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		02/21/01	149.82	75.10	74.72		<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		05/17/01	149.82	73.17	76.65	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		09/06/01	149.82	76.54	73.28	0.00	<0.50	<0.50	<0.50	0.65	<50	<5.0
MW3		12/07/01	149.82	79.14	70.68	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		02/25/02	149.82	74.57	75.25	0.00	--	--	--	--	--	--
MW3		05/13/02	149.82	74.13	75.69	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		08/09/02	149.38	75.96	73.42	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		11/11/02	149.38	77.62	71.76	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		02/10/03	149.38	78.20	71.18	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		04/22/03	149.38	74.62	74.76	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		08/18/03	149.38	75.50	73.88	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3		11/14/03	149.38	77.06	72.32	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW3	b	02/02/04	149.38	75.26	74.12	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW3	b	05/04/04	149.38	74.32	75.06	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW3	b	08/25/04	149.38	76.36	73.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW4		12/28/98	--	70.86	--		230	75	41	180	1,600	72
MW4		09/08/99	--	73.35	--		37	13	7.8	20	170	<5
MW4		12/28/99	--	74.95	--		50	59	24	67	360	<5
MW4		03/20/00	--	74.76	--		110	150	54	190	1,100	7.5

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW4		06/27/00	--	74.82	--		85	91	33	130	700	<5.0
MW4		09/21/00	--	76.39	--		8.0	8.5	2.8	17	130	<5.0
MW4		12/26/00	--	76.41	--		93	74	23	160	840	8.4
MW4		02/21/01	--	75.86	--		280	410	120	820	4,200	<50
MW4		05/17/01	--	73.84	--	0.00	42	36	8.5	49	560	<50
MW4		09/06/01	--	77.32	--	0.00	600	380	69	690	3,000	<50
MW4		12/07/01	--	79.15	--	0.00	800	1,500	380	1,800	7,400	<50
MW4		02/25/02	--	75.23	--	0.00	21	19	11	40	470	<5.0
MW4		05/13/02	--	74.90	--	0.00	360	620	160	790	3,800	<100
MW4		08/09/02	150.51	76.78	73.73	0.00	47	75	12	51	370	<5.0
MW4		11/11/02	150.51	78.38	72.13	0.00	50	160	53	250	970	<5.0
MW4		02/10/03	150.51	76.85	73.66	0.00	17	26	29	130	510	<5.0
MW4		04/22/03	150.51	75.39	75.12	0.00	1.3	6.8	3.0	19	130	8.8
MW4		08/18/03	150.51	76.27	74.24	0.00	<0.50	1.4	<0.50	2.6	<50	<5.0
MW4		11/14/03	150.51	77.86	72.65	0.00	<0.50	1.0	<0.50	<0.50	<50	<5.0
MW4	b	02/02/04	150.51	76.03	74.48	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW4	b	05/04/04	150.51	75.05	75.46	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW4	b	08/25/04	150.51	77.11	73.40	0.00	<0.50	<0.50	<0.50	1.1	<50	<0.50
MW5		12/28/98	--	71.96	--		320	2,900	600	5,900	44,000	<100
MW5		09/08/99	--	74.46	--		160	61	59	100	2,700	<10.0
MW5		12/28/99	--	76.05	--		21	26	12	26	1200	<10.0
MW5		03/20/00	--	75.50	--		25	3.7	12	8.7	340	<10
MW5		06/26/00	--	75.88	--		52	40	31	57.0	800	<5.0
MW5		09/21/00	--	77.50	--		22	53	11	54	730	<5.0
MW5		12/26/00	--	77.44	--		0.91	1.3	<0.50	2.9	380	<5.0
MW5		02/21/01	--	76.95	--		1.2	4.4	1.5	8.6	280	<5.0
MW5		05/17/01	--	74.98	--	0.00	44	18	11	48	740	<5.0
MW5		09/06/01	--	78.42	--	0.00	1.2	0.83	<0.50	3.3	450	<5.0
MW5		12/07/01	--	dry	--	--	--	--	--	--	--	--
MW5		02/25/02	--	76.36	--	0.00	28	30	12	110	590	<5.0
MW5		05/13/02	--	75.92	--	0.00	6.4	7.6	5.3	19	560	<5.0
MW5		08/09/02	151.63	77.86	73.77	0.00	22	39	5.7	59	490	<5.0

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5		11/11/02	151.63	79.50	72.13	0.00	<0.50	<0.50	<0.50	2.4	160	<5.0
MW5		02/10/03	151.63	78.05	73.58	0.00	--	--	--	--	--	--
MW5		04/22/03	151.63	76.53	75.10	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW5		08/18/03	151.63	77.38	74.25	0.00	<0.50	<0.50	<0.50	<0.50	<50	<5.0
MW5		11/14/03	151.63	--	--	--	--	--	--	--	--	--
MW5	b	02/02/04	151.63	77.16	74.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW5	b	05/04/04	151.63	76.20	75.43	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
MW5		08/25/04	151.63	78.26	73.37	0.00	--	--	--	--	--	--
EW1		09/17/97	151.35	59.38	91.97		--	--	--	--	--	--
EW1		12/18/97	151.35	dry	--		--	--	--	--	--	--
EW1		03/17/98	151.35	dry	--		--	--	--	--	--	--
EW1		06/15/98	151.35	dry	--		--	--	--	--	--	--
EW1		08/20/98	151.35	dry	--		--	--	--	--	--	--
EW1		12/28/98	151.35	dry	--		--	--	--	--	--	--
EW1		09/08/99	151.35	dry	--		--	--	--	--	--	--
EW1		12/28/99	151.35	dry	--		--	--	--	--	--	--
EW1		03/20/00	151.35	dry	--		--	--	--	--	--	--
EW1		06/26/00	151.35	dry	--		--	--	--	--	--	--
EW1		09/21/00	151.35	dry	--		--	--	--	--	--	--
EW1		12/26/00	151.35	dry	--		--	--	--	--	--	--
EW1		02/21/01	151.35	dry	--		--	--	--	--	--	--
EW1		05/17/01	151.35	dry	--	--	--	--	--	--	--	--
EW1		09/06/01	151.35	dry	--	--	--	--	--	--	--	--
EW1		12/07/01	151.35	dry	--	--	--	--	--	--	--	--
EW1		02/25/02	151.35	dry	--	--	--	--	--	--	--	--
EW1		05/13/02	151.35	dry	--	--	--	--	--	--	--	--
EW1		08/09/02	150.98	dry	--	--	--	--	--	--	--	--
EW1		11/11/02	150.98	dry	--	--	--	--	--	--	--	--
EW1		02/10/03	150.98	dry	--	--	--	--	--	--	--	--
EW1		04/22/03	150.98	--	--	--	--	--	--	--	--	--
EW1		08/18/03	150.98	dry	--	--	--	--	--	--	--	--
EW1		11/14/03	150.98	dry	--	--	--	--	--	--	--	--

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
EW1		02/02/04	150.98	dry	--	--	--	--	--	--	--	--
EW1		05/04/04	150.98	dry	--	--	--	--	--	--	--	--
EW1		08/25/04	150.98	dry	--	--	--	--	--	--	--	--
EW2		09/17/97	151.44	77.62	73.82		23,000	69,000	5,500	36,000	230,000	<500
EW2		12/18/97	151.44	77.60	73.84	*	--	--	--	--	--	--
EW2		03/17/98	151.44	72.74	78.70		1,300	5,500	1,200	9,900	35,000	230
EW2		06/15/98	151.44	75.80	75.64		2,000	7,200	1,600	9,200	39,000	<1,000
EW2		08/20/98	151.44	71.20	80.24		1,800	7,200	2,000	11,000	57,000	<500
EW2		12/28/98	151.44	71.44	80.00		1,000	3,500	820	9,200	55,000	<500
EW2		09/08/99	151.44	73.91	77.53		1,100	1,300	540	2,700	19,000	<5.0
EW2		12/28/99	151.44	75.49	75.95		450	1,100	410	2,700	12,000	<100
EW2		03/20/00	151.44	75.32	76.12		1,500	2,800	970	6,300	32,000	<500
EW2		06/27/00	151.44	75.35	76.09		1,400	3,100	1,000	4,900	27,000	<500
EW2		09/26/00	151.44	76.92	74.52		1,200	2,900	840	4,500	26,000	<100
EW2		12/26/00	151.44	76.94	74.50		570	1,500	550	3,400	21,000	<100
EW2		02/21/01	151.44	76.36	75.08		480	1,300	370	3,400	24,000	180
EW2		05/17/01	151.44	74.42	77.02	0.00	280	490	170	1,200	8,200	<100
EW2		09/06/01	151.44	77.82	73.62	0.00	--	--	--	--	--	--
EW2		12/07/01	151.44	dry	--	--	--	--	--	--	--	--
EW2		02/25/02	151.44	75.85	75.59	0.00	220	170	57	360	3,200	<50
EW2		05/13/02	151.44	75.40	76.04	0.00	200	370	45	410	3,200	<50
EW2		08/09/02	151.16	77.26	73.90	0.00	--	--	--	--	--	--
EW2		11/11/02	151.16	78.12	73.04	0.00	160	530	150	1,000	5,700	56
EW2		02/10/03	151.16	77.50	73.66	0.00	15	53	31	310	1,900	<25
EW2		04/22/03	151.16	75.97	75.19	0.00	31	140	50	660	2,800	<25
EW2		08/18/03	151.16	76.84	74.32	0.00	8.2	210	94	860	3,400	<25
EW2		11/14/03	151.16	77.92	73.24	0.00	<2.5	27	9.5	170	760	<25
EW2	b	02/02/04	151.16	76.42	74.74	0.00	<2.5	31	22.0	260	1,400	<2.5
EW2	b	05/04/04	151.16	75.67	75.49	0.00	<2.5	45	33	430	1,800	<2.5
EW2	b	08/25/04	151.16	77.67	73.49	0.00	0.54	1.2	1.0	5.1	110	<0.50
AS1		09/08/99	--	74.08	--		--	--	--	--	--	--

TABLE 3 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS,
OLYMPIC SUNNYVALE STATION, 750 SOUTH BERNARDO AVENUE, SUNNYVALE, CALIFORNIA

Well		Date	Reference Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Liquid-phase Hydrocarbons (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
AS1		12/28/99	--	75.68	--		<0.50	<0.50	<0.50	<0.50	80	<5.0
AS1		03/20/00	--	--	--		--	--	--	--	--	--
AS1		06/27/00	--	75.51	--		2.4	2.0	1.1	3.9	53	<5.0
AS1		09/21/00	--	--	--		--	--	--	--	--	--
AS1		12/26/00	--	77.14	--		49	1.1	2.7	0.73	210	21
AS1		02/21/01	--	76.60	--		100	6.3	19	9.2	500	18
AS1		05/17/01	--	74.62	--	0.00	27	2.8	15	13	290	6.8
AS1		09/06/01	--	78.07	--	0.00	0.98	<0.50	<0.50	<0.50	<50	<5.0
AS1		12/07/01	--	dry	--	--	--	--	--	--	--	--
AS1		02/25/02	--	76.03	--	0.00	5.8	4.4	1.6	11	370	10
AS1		05/13/02	--	75.57	--	0.00	15	<0.50	12	1.2	450	<5.0
AS1		08/09/02	151.29	77.45	73.84	0.00	6.6	<0.50	2.3	<0.50	180	6.6
AS1		11/11/02	151.29	79.13	72.16	0.00	22	8.8	<0.50	77.0	310	9.6
AS1		02/10/03	151.29	77.65	73.64	0.00	43	19	6.3	150	790	13
AS1		04/22/03	151.29	76.15	75.14	0.00	9.6	<0.50	8.8	<0.50	160	8.8
AS1		08/18/03	151.29	77.02	74.27	0.00	3.2	<0.50	1.4	<0.50	100	<5.0
AS1	a	11/14/03	151.29	78.60	72.69	0.00	<0.50	2.9	<0.50	11	60	<5.0
AS1	a,b	02/02/04	151.29	76.81	74.48	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
AS1	b	05/04/04	151.29	75.85	75.44	0.00	<0.50	<0.50	<0.50	<1.0	<50	<0.50
AS1	b	08/25/04	151.29	77.89	73.40	0.00	<0.50	1.2	<0.50	1.4	<50	<0.50

a Grab groundwater sample collected.
b All analytes analyzed by EPA Method 8260B beginning February 2004.

MTBE Methyl tertiary butyl ether.
TPH Total Petroleum Hydrocarbons.

* Floating product.
-- Not measured, not sampled, or not analyzed.

µg/L Micrograms per liter.

APPENDIX A
REGULATORY CORRESPONDENCE

Water District

5750 ALMADEN EXPWY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACIMILE (408) 266-0271
www valleywater org
AN EQUAL OPPORTUNITY EMPLOYER

August 20, 2004

Mr. Fred Hill
c/o Hill & Company Realtors
700 South Bernardo Avenue
Sunnyvale, CA 94087

Mr. Ali Bozorghadad
Olympic Oil Company
750 South Bernardo Avenue
Sunnyvale, CA 94087

Mr. Glenn Dembroff
Ultramar Incorporated
685 West Third Street
Hanford, CA 93230

SUBJECT: Fuel Leak Investigation at Bernardo Texaco, Case No. 20-011, SCVWDID# 06S2W35D01f, 750 South Bernardo Avenue, Sunnyvale, CA

Dear Mr. Hill, Mr. Bozorghadad, and Mr. Dembroff:

Thank you for submitting your Work Plan for Post-Remedial Action Soil Boring Installation, dated August 3, 2004, prepared by ETIC Engineering, Incorporated. Santa Clara Valley Water District (District) staff generally concurs with your proposed scope of work. Please note that in addition to analyze soil samples with an elevated field-screened PID reading, soil samples collected at depths of previous high contamination should also be analyzed to prove cleanup effectiveness. Please proceed with your investigation and submit the report by **October 25, 2004**.

This technical report is being requested pursuant to the Regional Board's authority under Section 13267 of the California Water Code.

If you have any questions, please call me at (408) 265-2607, extension 3754.

Sincerely,

Grace Cheng
Water Quality Specialist
Groundwater Cleanup Oversight Programs Unit

Cc:
Sherris Prall, ETIC Engineering, Incorporated
GSC:gsc
DIR_L_2004-08-20

APPENDIX B
PERMITS

RECEIVED

AUG 05 2004

ETIC ENGINEERING

Santa Clara Valley Water District
5750 Almaden Expressway, San Jose, CA 95118-3614

APPLICATION TO DRILL EXPLORATORY BORINGS

FC 285 (04-29-02)

Date Issued:	Expiration Date:	District Permit No.:
8/5/04	2/5/05	04E00131

Client (if different from property owner):	Property Owner: c/o Fred Hill	Name of Business/Residence at Site:
	HILL AND COMPANY REALTORS	OLYMPIC SUNNYVALE
Client's Address:	Property Owner's Address:	Address of Site:
	700 SOUTH BERNARDO AVE	750 SOUTH BERNARDO AVE
City, State, Zip:	City, State, Zip:	City, State, Zip:
	SUNNYVALE, CA 94087	SUNNYVALE, CA 94086
Telephone No :	Telephone No :	Assessor's Parcel Number of Site:
	(408) 736-5900	Book: 198 Page: 18 Parcel: 015

Consulting Company Name:	Drilling Company Name:	
ETIC ENGINEERING, INC.	GREGG DRILLING & TESTING, INC	
Address:	Address:	
2285 MORELLO AVE	950 HOWE RD	
City, State, Zip:	City, State, Zip:	C-57/C-61 License No:
PLEASANT HILL, CA 94523	MARTINEZ, CA 94553	485-165
Telephone No.:	Telephone:	
(925) 602-4710	(925) 313-5800	
☐ Check if address or phone number has changed.	☐ Check if address or phone number has changed.	

In space at right sketch location of proposed boring(s) in sufficient detail to identify location. In addition to distances to nearest street and intersection, show distances to any existing structures, landmarks or topographic features.

How many borings will be installed on parcel? 2

☐ Proposed borings on SCVWD property Easement*

☐ Proposed boring within 50 feet of the top of a creek/river bank*

* See Page 2, Condition F.

Proposed depth of boring(s):

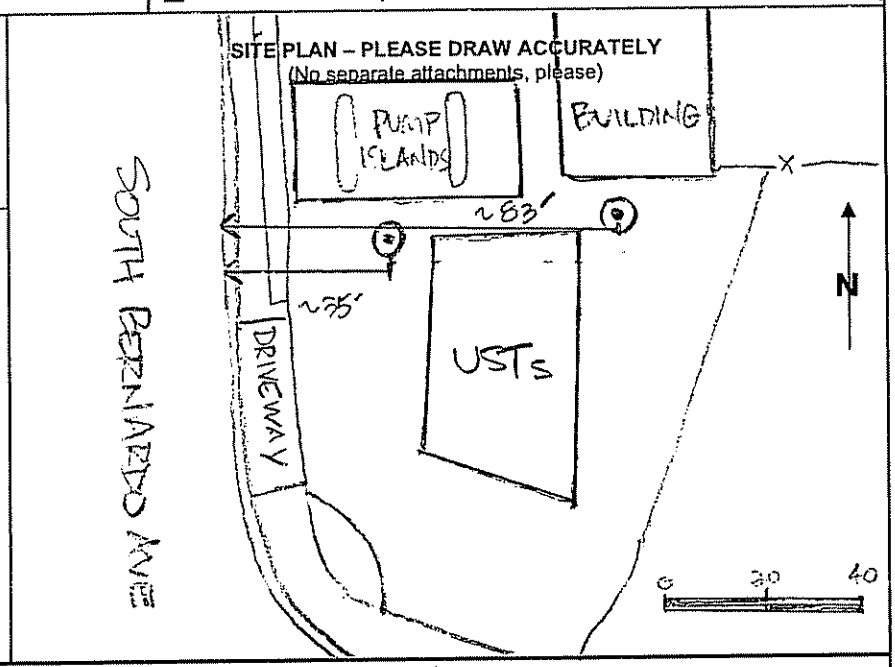
- ☒ 45 to 150 feet
- ☐ 151 to 300 feet
- ☐ Over 300 feet

NOTE: NO PERMIT IS REQUIRED FOR BORINGS UNDER 45 FEET DEEP

Type of boring(s):

- ☒ Hollow stem
- ☐ Rotary
- ☐ CPT/Hydropunch
- ☐ Other:_____

SITE PLAN – PLEASE DRAW ACCURATELY
(No separate attachments, please)



I understand that all work is to be done in accordance with S.C.V.W.D. Ordinance 90-1, "The District Well Standards," and the conditions of this permit (see page 2). I also certify that the information given above is correct. **NOTE:** All applicable signatures must be present before permit will be processed.

	Print/Type Name:	Date:
Signature of Property Owner/Agent: FRED Hill		
Signature of Client/Agent:	Print/Type Name:	Date: 7-27-04
Signature of Driller/Agent:	Print/Type Name: Christopher Pruner	Date: 7/26/04
Signature of Consultant:	Print/Type Name: Mark Peterson	Date: 7/30/04

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2607, Ext. 2660. For weekends, holidays, and after hours call (408) 265-2607, extension 2120.

RECEIVED
AUG 02 2004

Santa Clara Valley Water District
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686

04E00131

750 S. Bernard Ave, Sunnyvale

APN: 19818015
750 S Bernardo Ave
Sunnyvale CA
94087

Well Annotations- 7 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S02W35D001	84W0708	MW-1	Other-Active	6109206	1961149
2	06S02W35D002	91W1314	MW-1	Other-Active	6109194	1961221
3	06S02W35D003	93W0595	EW-2	Other-Active	6109223	1961168
4	06S02W35D004	93W0594	EW-1	Other-Active	6109254	1961161
5	06S02W35D007	98W00793	MW4	Other-Active	6109188	1961206
6	06S02W35D008	98W00792	MW-5	Other-Active	6109263	1961148
7	06S02W35D009	98W00826	AS-1	Other-Active	6109237	1961144

Wells.shp
- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined

PARCELS.SHP

Approximate Scale
30 0 30 60 Feet

c:\esri\work.apr

August 5, 2004

APPENDIX C
GENERAL FIELD PROTOCOLS AND BORING LOGS

PROTOCOLS FOR INSTALLATION, SAMPLING, AND ABANDONMENT OF DUAL TUBE DIRECT PUSH BORINGS

SOIL CORING PROCEDURES

Prior to drilling, all boreholes are cleared by hand auger, shovel, or posthole digger to 5 to 8 feet below ground surface

Soil and groundwater samples are collected for lithologic and chemical analysis using a direct driven dual tube soil coring system A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores Two nested sampling rods are driven simultaneously small-diameter inner sampling rods are used to obtain and retrieve the soil cores, the larger diameter (approximately 2-inch OD) outer rods serve as temporary drive casing

As the rods are advanced, soil is driven into an approximately 1 5-inch-diameter sample barrel that is attached to the end of the inner rods Soil samples are collected in sleeves inside the sample barrel as both rods are advanced The use of outer rods prevents sloughing of the formation while the inner rods are withdrawn from the hole This ensures that the drive sampler will always be sampling soil from the desired interval, rather than potentially contaminated soil that has sloughed in from higher up in the hole

After being driven 3 feet, the inner rods are removed from the borehole The sleeves containing the soil samples are removed from the inner sample barrel, and can then be preserved for chemical analyses or used for lithologic identification The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time The samples are placed in bags and stored in a cooler containing ice This process is repeated until the desired depth is reached

When the sampler is retrieved, either the lowermost or middle sample liner is removed and the ends of the tube are covered with aluminum foil or a Teflon liner and sealed with plastic caps Soil from one of the liners is placed in a plastic bag The soil is scanned with a flame ionization detector (FID) or a photo-ionization detector (PID)

All drive casing, inner sample barrels, inner rods, and tools are cleaned with Alconox or equivalent detergent and deionized water All rinsate from the cleaning is contained in 55-gallon drums at the project site

SOIL GAS SAMPLING PROCEDURES

Soil gas samples are collected for chemical analysis using a direct drive system A hydraulic hammer drives the sampling rods into the ground to the desired depth of the soil gas sample The soil gas sample is collected using the Geoprobe Post-Run Tubing (PRT) System Once the PRT tubing system is inserted into the rods and connected to the PRT expendable point holder, the rods are retracted at a desired interval and the expendable drive point on the bottom of the rods is released A vacuum is then applied to the tubing to purge the ambient air

The soil gas sample is then collected in a summa canister A summa canister is a 6-liter stainless steel vessel which has had the internal surfaces specially passivated using a "Summa" process The summa

canister arrives pre-cleaned from the laboratory and with an internal vacuum of between 25" Hg and 30" Hg. Prior to use, the pressure in the summa canister is checked with a pressure gauge to ensure a vacuum of at least 25" Hg for quality control purposes. Once the PRT tubing has been purged of ambient air, the vacuum system is shut off and, without exposing the tubing to the ambient air, it is connected to a summa canister. A particulate filter is used in-line to filter out particles and liquids, and a pressure gauge may be used in-line or after sampling to check the final pressure. The valve on the summa canister is opened, and the soil gas sample is drawn into the canister. A small vacuum of about 5" Hg is left inside the canister and is recorded on the chain-of-custody. Upon receipt the laboratory will check the pressure in the canister and compare it to the pressure recorded on the chain-of-custody for quality control purposes.

GROUNDWATER SAMPLING PROCEDURES

After the targeted water-bearing zone has been penetrated, the sample barrel and inner rods are removed from the borehole, and the drive casing is pulled up approximately 0.5 to 2 feet to allow groundwater to flow into the borehole. Small-diameter well casing with 0.010-inch slotted well screen or equivalent may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole inside the drive casing. The drive casing is then pulled up to expose the slotted interval of the PVC. Groundwater samples may then be collected with a bailer, peristaltic pump, bladder pump or inertial pump until adequate sample volume is obtained.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

BOREHOLE GROUTING

On completion of soil and water sampling, boreholes will be abandoned with a neat cement grout. The grout is pumped through a grouting tube positioned at the bottom of the boreholes prior to withdrawing the outer rods.

ETIC ENGINEERING

LOG OF SOIL BORING: **SB1**

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Gregg Drilling, Inc

LICENSE NUMBER: C57 #485-165

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

DRILLING AND SAMPLING METHODS: Hand augered to 9 feet bgs Drilled with Marl M12 using 8 25" O D hollow-stem augers Soil sampled with 18" split-spoon sampler

				START	FINISH
WATER LEVEL	▽ 78.5				
TIME	1150			TIME 0800	TIME 1600
DATE	9/2/04			DATE 9/2/04	DATE 9/2/04
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt to 3"

DESCRIPTION BY: B. Gilbert

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	DESCRIPTION	DETAILS
				0						Asphalt	
				1							
				2							
				3							
				4							
				5							
				6							
				7							
				8							
				9							
				10					CL		
				11							
				12							
				13							
18	18	6		14							
		8	2.4							SILTY CLAY with GRAVEL: dark yellowish brown (10YR 3/4), firm, low plasticity, rare fine to medium sand, gravel to 1/4" diameter, nodules of light olive brown (10YR 5/4) sandy silt, dry	
		11		15							
				16							
				17							
				18							
18	18	4		19						Increase in coarse sand and angular gravel (to 3/4" diameter) content	
		7	3.6								
		12		20							

Cement Grout from ground surface to 95.0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale. CA 94086

LOG OF SOIL BORING: **SB1**

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				21		
				22		
				23		
		6		24		Increase in silt content. small roots
18	18	12	4 1		CL	
		31		25		
				26		
				27		
				28		
		9				Increase in gravel content
18	18	18	4.3	29		GRAVELLY SAND with SILT: light olive brown (2 5Y 5/3), poorly cemented. low plastic fines, very fine to coarse sand. subangular gravel to 2" diameter. dry
		29		30	SW	
				31		
				32		CLAY with SAND: brown (10YR 4/3), moderately soft, medium plasticity, very fine to medium sand, rare gravel to 1/4" diameter. dry
				33		
		5				
18	18	8	2 3	34		
		9		35		
				36		
				37		
				38	CL	
		9				Increase in silt and very fine sand content
18	18	13	5 6	39		
		16		40		
				41		
				42		
				43		
		8				
18	18	14	11.1	44		
		30		45	SM	SILTY SAND with GRAVEL: brown (10YR 4/3). moderately cemented, low plastic fines, fine to medium sand, subangular gravel to 1/2" diameter. dry.

Cement Grout from ground surface to 95 0 feet bgs.

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

LOG OF SOIL BORING:

SB1

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				46	SM	SAND with GRAVEL: brown (10YR 4/3), moderately cemented, subrounded coarse sand. subrounded gravel to 1/2" diameter. dry
				47		
				48		
18	18	33 36 31	50 0	49 50		
				51	SP	
				52		
				53		
18	18	23 30 36	5.0	54 55		Rare silt. medium to coarse sand, subangular gravel to 2" diameter. dry
				56		
				57		SANDY SILT with GRAVEL: dark yellowish brown (10YR 4/4), stiff. low plasticity, fine to coarse sand, subangular gravel to 1" diameter. dry
				58		
18	18	9 13 18	1 5	59 60	ML	
				61		
				62		GRAVELLY SAND with SILT: dark brown (10YR 3/3), poorly cemented, subangular fine to coarse sand. subangular gravel to 1-1/2" diameter. dry
				63		
18	18	14 17 22	1 5	64 65		
				66	SW	
				67		
				68		
18	18	29 24 13	1.0	69 70		

Cement Grout from ground surface to 95 0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

LOG OF SOIL BORING:

SB1

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	
				71					SM	SAND with SILT: dark yellowish brown (10YR 4/4). moderately cemented. very fine to fine sand, dry
				72						GRAVELLY SAND with SILT: dark brown (10YR 3/3), moderately cemented, fine to coarse sand. subangular gravel to 1/2" diameter. damp
				73						
18	18	15 23 35	1 5	74						
				75						
				76						
				77					SW	
				78						
18	18	16 28 40		79						Wet
				80						Grab groundwater sampled collected at 80 feet bgs
				81						
				82						SAND with GRAVEL: brown (10YR 4/3), poorly cemented, medium to coarse sand. subrounded gravel to 1/2" diameter, wet
				83						
18	18	7 13 24	4 0	84						
				85					SP	
				86						
				87						
				88						SANDY CLAY: brown (10YR 4/3), stiff, low to medium plasticity. fine sand, moist to wet
18		12 25 50		89						
	6			90						
				91					CL	
				92						
				93						
18	18	9 15 22	7 6	94						Color change to dark yellowish brown (10YR 4/6). dry to damp
				95						Boring terminated at 95 feet bgs

Cement Grout from ground surface to 95 0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

LOG OF SOIL BORING: **SB2**

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Gregg Drilling, Inc.

LICENSE NUMBER: C57 #485-165

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

DRILLING AND SAMPLING METHODS: Hand augered to 9 feet bgs. Drilled with Marl M12 using 6" O.D. hollow-stem augers. Soil sampled with 18" split-spoon sampler

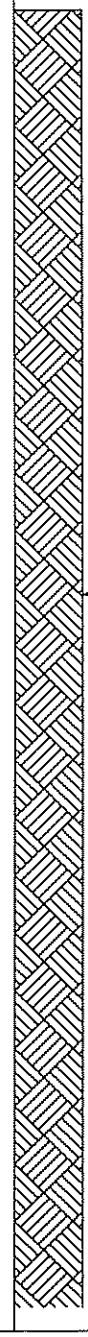
				START	FINISH
WATER LEVEL	▽ 78.5				
TIME	955			TIME 0715	TIME 1400
DATE	9/3/04			DATE 9/3/04	DATE 9/3/04
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt to 4"

DESCRIPTION BY: B. Gilbert

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	DESCRIPTION
				0					Asphalt
18	18	11 9 11	3.4	13–15			☒	CL	SILTY CLAY with SAND: dark yellowish brown (10YR 3/4), hard, low plasticity. very fine to fine sand, rare gravel to 1/4" diameter, nodules of light yellowish brown (10YR 6/4) sandy silt, dry
18	18	5 7 8	1.7	19–20			☒		

DETAILS



Cement Grout from ground surface to 95.0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

LOG OF SOIL BORING:

SB2

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				21	CL	
				22		SILTY SAND with GRAVEL: dark yellowish brown (10YR 4/6), poorly cemented, very fine to medium sand, some coarse sand, subangular gravel to 1-1/2" diameter, dry
				23		
18	18	9 13 20	3 6	24 25	SM	
				26		
				27		SILTY CLAY with GRAVEL: dark yellowish brown (10YR 4/4), firm, low plasticity, rare fine to medium sand, subangular gravel to 1/2" diameter, dry
18	18	10 14 23	9 8	28 29 30	CL	
				31		
				32		SANDY SILT with CLAY: dark yellowish brown (10YR 4/4), firm, low plasticity, very fine to fine sand. rare gravel to 1/4" diameter, dry
18	18	6 12 14	2 4	33 34 35		
				36		
				37		
				38	ML	
18	18	9 10 12	3 2	39 40		Increase in very fine sand content
				41		
				42		
				43		
18	18	10 18 20	5 2	44 45	SM	Increase in clay content, decrease in sand content SILTY SAND: dark brown (10YR 3/3), moderately cemented, fine to medium sand. some coarse sand, dry

Cement Grout from ground surface to 95 0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale. CA 94086

LOG OF SOIL BORING:

SB2

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				46	SM	GRAVELLY SAND with SILT: dark brown (10YR 3/3), poorly cemented, fine to coarse sand. subangular gravel to 1" diameter, damp
				47		
				48		
18	18	20 35 38	4 1	49 50		
				51		
				52		
				53		
10	10	30 50/4"	5 6	54	SW	Increase in subrounded very coarse sand content. dry
				55		
				56		
				57		
				58		
18	18	25 37 40	6 5	59 60		Increase in silt content, subangular gravel to 2" diameter, damp
				61		
				62		SANDY SILT with SAND: dark yellowish brown (10YR 4/4), fine to medium sand, subangular gravel to 1" diameter. dry
				63		
18	18	31 44 45	2 0	64 65	ML	
				66		
				67		GRAVELLY SAND: brown (10YR 4/3), moderately cemented, subrounded fine to coarse sand. subangular gravel to 1" diameter. damp
				68		
18	18	15 23 36	3 8	69 70	SP	

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

Cement Grout from ground surface to 95 0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
Fred Hill	Olympic	750 South Bernardo Ave Sunnyvale, CA 94086

LOG OF SOIL BORING:

SB2

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				71		
				72	SP	
				73		
18	18	6 9 14	7 4	74		CLAYEY SILT with SAND: olive brown (2 5Y 4/3), firm, low plasticity. very fine sand, rare gravel to 1/4" diameter, damp
				75	ML	
				76		
				77		GRAVELLY SAND: brown (10YR 5/3). poorly cemented, subrounded coarse sand, subrounded gravel to 2" diameter, wet
				78		
18	18	18 28 40	3 8	79		
				80		
				81		
				82		
				83	SP	
18	18	12 26 40	4 2	84		
				85		
				86		
				87		
				88		
18	18	21 37 34	58 6	89		
				90	CL	SANDY CLAY with SILT: brown (10YR 4/3), firm to hard. low plasticity, very fine to fine sand, rare gravel 10 1/4" diameter. damp. rust stains
				91		
				92		
				93		
18	0	9 14 20		94		No recovery
				95		Boring terminated at 95 feet bgs

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

Cement Grout from ground surface to 95 0 feet bgs

LOG OF SOIL BORING BORING LOGS.GPJ ETIC.GDT 10/12/04

APPENDIX D
LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Submission#: 2004-09-0085

ETIC Pleasant Hill

September 10, 2004

2285 Morello Avenue
Pleasant Hill, CA 94523

Attn.: Sherris Prall

Project#: TMOLMT4
Project: Olympic

Dear Ms. Prall,

Attached is our report for your samples received on 09/02/2004 17:35
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/17/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,

Surinder Sidhu
Project Manager

SEVERN TRENT STL

Submission: 2004-09-0085

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1, 39.5-40'	09/02/2004 09:05	Soil	6
SB1, 49.5-50'	09/02/2004 09:30	Soil	8
SB1, 59.5-60'	09/02/2004 10:02	Soil	10
SB1, 69.5-70'	09/02/2004 10:49	Soil	12
SB1, 94.5-95'	09/02/2004 13:30	Soil	17

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1, 39.5-40'**	Lab ID:	2004-09-0085 - 6
Sampled:	09/02/2004 09:05	Extracted:	9/9/2004 19:45
Matrix:	Soil	QC Batch#:	2004/09/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/09/2004 19:45	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/09/2004 19:45	
Benzene	ND	5.0	ug/Kg	1.00	09/09/2004 19:45	
Toluene	ND	5.0	ug/Kg	1.00	09/09/2004 19:45	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/09/2004 19:45	
Total xylenes	ND	5.0	ug/Kg	1.00	09/09/2004 19:45	
Surrogate(s)						
1,2-Dichloroethane-d4	104 3	72-124	%	1.00	09/09/2004 19:45	
Toluene-d8	93.6	75-116	%	1.00	09/09/2004 19:45	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1, 49.5-50'**	Lab ID:	2004-09-0085 - 8
Sampled:	09/02/2004 09:30	Extracted:	9/9/2004 20:07
Matrix:	Soil	QC Batch#:	2004/09/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/09/2004 20:07	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/09/2004 20:07	
Benzene	ND	5.0	ug/Kg	1.00	09/09/2004 20:07	
Toluene	ND	5.0	ug/Kg	1.00	09/09/2004 20:07	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/09/2004 20:07	
Total xylenes	ND	5.0	ug/Kg	1.00	09/09/2004 20:07	
Surrogate(s)						
1,2-Dichloroethane-d4	103.8	72-124	%	1.00	09/09/2004 20:07	
Toluene-d8	111.7	75-116	%	1.00	09/09/2004 20:07	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1, 59.5-60'**	Lab ID:	2004-09-0085 - 10
Sampled:	09/02/2004 10:02	Extracted:	9/9/2004 20:29
Matrix:	Soil	QC Batch#:	2004/09/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/09/2004 20:29	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/09/2004 20:29	
Benzene	ND	5.0	ug/Kg	1.00	09/09/2004 20:29	
Toluene	ND	5.0	ug/Kg	1.00	09/09/2004 20:29	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/09/2004 20:29	
Total xylenes	ND	5.0	ug/Kg	1.00	09/09/2004 20:29	
Surrogate(s)						
1,2-Dichloroethane-d4	110.4	72-124	%	1.00	09/09/2004 20:29	
Toluene-d8	103.6	75-116	%	1.00	09/09/2004 20:29	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s): 5030B
Test(s): 8260B
Sample ID: **SB1, 69.5-70'**
Lab ID: 2004-09-0085 - 12
Sampled: 09/02/2004 10:49
Extracted: 9/10/2004 02:03
Matrix: Soil
QC Batch#: 2004/09/09-02.62
Analysis Flag: lm (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	4400	ug/Kg	4.42	09/10/2004 02:03	
Methyl tert-butyl ether (MTBE)	ND	22	ug/Kg	4.42	09/10/2004 02:03	
Benzene	ND	22	ug/Kg	4.42	09/10/2004 02:03	
Toluene	23	22	ug/Kg	4.42	09/10/2004 02:03	
Ethyl benzene	23	22	ug/Kg	4.42	09/10/2004 02:03	
Total xylenes	140	22	ug/Kg	4.42	09/10/2004 02:03	
Surrogate(s)						
1,2-Dichloroethane-d4	96.6	72-124	%	4.42	09/10/2004 02:03	
Toluene-d8	100.5	75-116	%	4.42	09/10/2004 02:03	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB1, 94.5-95'**	Lab ID:	2004-09-0085 - 17
Sampled:	09/02/2004 13:30	Extracted:	9/10/2004 10:55
Matrix:	Soil	QC Batch#:	2004/09/10-01.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/10/2004 10:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/10/2004 10:55	
Benzene	ND	5.0	ug/Kg	1.00	09/10/2004 10:55	
Toluene	ND	5.0	ug/Kg	1.00	09/10/2004 10:55	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/10/2004 10:55	
Total xylenes	ND	5.0	ug/Kg	1.00	09/10/2004 10:55	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	72-124	%	1.00	09/10/2004 10:55	
Toluene-d8	102.8	75-116	%	1.00	09/10/2004 10:55	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2004/09/09-02.62**

MB: 2004/09/09-02.62-032 — Date Extracted: 09/09/2004 18:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	09/09/2004 18:32	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	09/09/2004 18:32	
Benzene	ND	5.0	ug/Kg	09/09/2004 18:32	
Toluene	ND	5.0	ug/Kg	09/09/2004 18:32	
Ethyl benzene	ND	5.0	ug/Kg	09/09/2004 18:32	
Total xylenes	ND	5.0	ug/Kg	09/09/2004 18:32	
Surrogates(s)					
1,2-Dichloroethane-d4	108.0	72-124	%	09/09/2004 18:32	
Toluene-d8	105.8	75-116	%	09/09/2004 18:32	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2004/09/10-01.66**

MB: 2004/09/10-01.66-041 — Date Extracted: 09/10/2004 07:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	09/10/2004 07:41	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	09/10/2004 07:41	
Benzene	ND	5.0	ug/Kg	09/10/2004 07:41	
Toluene	ND	5.0	ug/Kg	09/10/2004 07:41	
Ethyl benzene	ND	5.0	ug/Kg	09/10/2004 07:41	
Total xylenes	ND	5.0	ug/Kg	09/10/2004 07:41	
Surrogates(s)					
1,2-Dichloroethane-d4	103.4	72-124	%	09/10/2004 07:41	
Toluene-d8	102.0	75-116	%	09/10/2004 07:41	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/09-02.62**

LCS 2004/09/09-02.62-048 Extracted: 09/09/2004 Analyzed: 09/09/2004 17:48
LCSD 2004/09/09-02.62-010 Extracted: 09/09/2004 Analyzed: 09/09/2004 18:10

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	66.4	61.6	50.0	132.8	123.2	7.5	65-165	20		
Benzene	50.4	54.0	50.0	100.8	108.0	6.9	69-129	20		
Toluene	51.4	59.2	50.0	102.8	118.4	14.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	463	468	500	92.6	93.6		72-124			
Toluene-d8	501	549	500	100.2	109.8		75-116			

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/10-01.66**

LCS 2004/09/10-01.66-056 Extracted: 09/10/2004 Analyzed: 09/10/2004 06:56
LCSD 2004/09/10-01.66-018 Extracted: 09/10/2004 Analyzed: 09/10/2004 07:18

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	59.1	56.8	50.0	118.2	113.6	4.0	65-165	20		
Benzene	59.1	57.9	50.0	118.2	115.8	2.1	69-129	20		
Toluene	56.5	53.9	50.0	113.0	107.8	4.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	455	483	500	91.0	96.6		72-124			
Toluene-d8	531	506	500	106.2	101.2		75-116			

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Legend and Notes

Analysis Flag

lrn

Reporting limits raised due to high level of non-target analyte materials.

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB1, 80'	09/02/2004 12:10	Water	18

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Prep(s): 5030B
Test(s): 8260B
Sample ID: **SB1, 80`**
Lab ID: 2004-09-0085 - 18
Sampled: 09/02/2004 12:10
Extracted: 9/10/2004 16:25
Matrix: Water
QC Batch#: 2004/09/10-01.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4900	100	ug/L	2.00	09/10/2004 16:25	
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L	2.00	09/10/2004 16:25	
Benzene	1.5	1.0	ug/L	2.00	09/10/2004 16:25	
Toluene	50	1.0	ug/L	2.00	09/10/2004 16:25	
Ethylbenzene	91	1.0	ug/L	2.00	09/10/2004 16:25	
Total xylenes	530	2.0	ug/L	2.00	09/10/2004 16:25	
Surrogate(s)						
1,2-Dichloroethane-d4	116.8	72-128	%	2.00	09/10/2004 16:25	
Toluene-d8	88.9	80-113	%	2.00	09/10/2004 16:25	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/09/10-01.65**

MB: 2004/09/10-01.65-001 — Date Extracted: 09/10/2004 13:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/10/2004 13:08	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/10/2004 13:08	
Benzene	ND	0.5	ug/L	09/10/2004 13:08	
Toluene	ND	0.5	ug/L	09/10/2004 13:08	
Ethylbenzene	ND	0.5	ug/L	09/10/2004 13:08	
Total xylenes	ND	1.0	ug/L	09/10/2004 13:08	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	72-128	%	09/10/2004 13:08	
Toluene-d8	111.2	80-113	%	09/10/2004 13:08	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/09/10-01.65**

LCS 2004/09/10-01.65-042 Extracted: 09/10/2004 Analyzed: 09/10/2004 10:42
LCSD 2004/09/10-01.65-008 Extracted: 09/10/2004 Analyzed: 09/10/2004 12:08

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.7	23.6	25.0	106.8	94.4	12.3	65-165	20		
Benzene	18.3	17.7	25.0	73.2	70.8	3.3	69-129	20		
Toluene	21.3	17.8	25.0	85.2	71.2	17.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512	509	500	102.4	101.8		72-128			
Toluene-d8	436	414	500	87.2	82.8		80-113			

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/02/2004 17:35

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

2004.09.0085

STL San Francisco Chain of Custody

SEVERN TRENT **STL**

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 88497

Date 9/2/04 Page 1 of 2

Report To

Attn: SHERRIS PRALL
Company: ETIC ENGINEERING
Address: 2285 MORELLO AVE, PLEASANT HILL
Phone: (925) 602-4710 Email: SPRALL@ETIC...
Bill To: ETIC
Sampled By: BG
Attn:
Phone:

Analysis Request

TPH EPA - 8015M/8021 BTEX; Purgeable Aromatics BTEX EPA 8021/8260B; TEPH EPA 8015M Diesel / Motor Oil / Other; Fuel Tests EPA 8260B Gas / BTEX / Five Oxygenates / DCA, EDB / Ethanol; Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B; Volatile Organics GC/MS (VOCs) EPA 8260B / 624; Semivolatiles GC/MS EPA 8270 / 625; Oil and Grease Petroleum / Total (EPA 1664); Pesticides EPA 8081 / 608, PCBs EPA 8082 / 608; PNAs by 8270 / 8310; CAM17 Metals (EPA 6010/7470/7471); Metals: Lead / LUFT / RCRA / Other; Low Level Metals by EPA 200.8/6020 (ICP-MS); W.E.T (STLC) TCLP; Hexavalent Chromium pH (24h hold time for H_2O); Spec Cond. / Alkalinity, TSS / TDS; Anions: Cl / SO_4 / NO_3 / F, Br / NO_2 / PO_4

Sample ID	Date	Time	Matrix	Pres.	Analysis
SB1, 14.5-15'	9/2/04	815	S	—	HOLD
SB1, 19.5-20'	↓	825	↓	—	HOLD
SB1, 24.5-25'	↓	835	↓	—	HOLD
SB1, 29.5-30'	↓	845	↓	—	HOLD
SB1, 34.5-35'	↓	852	↓	—	HOLD
SB1, 39.5-40'	↓	905	↓	—	HOLD
SB1, 44.5-45'	↓	920	↓	—	HOLD
SB1, 49.5-50'	↓	930	↓	—	HOLD
SB1, 54.5-55'	↓	945	↓	—	HOLD
SB1, 59.5-60'	↓	1012	↓	—	HOLD

Project Info. / Sample Receipt

Project Name: OLYMPIC
# of Containers: 10
Project#: TMOLMTA
Head Space: —
PO#: 4105
Temp: 6°C
Credit Card#:
Conforms to record:

T.A.T: 5 Day (circled) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID
Special Instructions / Comments:

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	[signature] 1735		
Printed Name / Date	BRYAN GLOSER 1735		
Company	ETIC		

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	[signature] 17:35		
Printed Name / Date	T. Bullock 9/2/04		
Company	STL-SF		

2004-09-0085

STEVENS TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 86497

Date 9/2/04 Page 2 of 2

Report To

Attn:

Company:

Address:

Phone: Email:

Bill To: Sampled By:

Attn: Phone:

Analysis Request

TPH EPA: ☐ 8015M/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE | Purgeable Aromatics BTEX EPA: ☐ 8021 ☐ 8260B | TEPH EPA 8015M: ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other | Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624 | Semivolatiles GC/MS ☐ EPA 8270 ☐ 625 | Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total | Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608 | PNAs by ☐ 8270 ☐ 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other | Low Level Metals by EPA 200.8/6020 (ICP-MS) | W.E.T. (STLC) TCLP ☐ ☐ | Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐ | Spec Cond. ☐ Alkalinity TSS ☐ TDS ☐ ☐ ☐ | Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4 | HOLD

					HOLD
SB1, 64.5-65'	9/2/04	1010	S	—	X
SB1, 69.5-70'		1049		—	X
SB1, 74.5-75'		1129		—	X
SB1, 79.5-80'		1155		—	X
SB1, 84.5-85'		1245		—	X
SB1, 89.5-90'		1316		—	X
SB1, 94.5-95'		1330	↓	—	X
SB1, 80'	↓	1410	W	HCl	X

Project Info.

Project Name: OLYMPIC

Project#: TMOLMTA

PO#: 4105

Credit Card#:

Sample Receipt

# of Containers: 8

Head Space: — ICE FOR WATER

Temp: 6°C

Conforms to record:

T A T: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

1) Relinquished by: [signature] 1735
Signature Time
PAUL GILBERT 9/2
Printed Name Date
ETIC
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: [signature] 17:35
Signature Time
T. Bullock 9/2/04
Printed Name Date
STL-SF
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

See Terms and Conditions on reverse
*STL-SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

FROM: ETIC FAX NO.: 9258324720 Sep. 02 2004 06:25PM P3

SEVERN TRENT STL

Submission#: 2004-09-0191

ETIC Pleasant Hill

September 14, 2004

2285 Morello Avenue
Pleasant Hill, CA 94523
Attn.: Sherris Prall
Project#: TMOLMT4
Project: Olympic

Dear Ms. Prall,

Attached is our report for your samples received on 09/03/2004 15:02
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/18/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,

Surinder Sidhu

Surinder Sidhu
Project Manager

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB2, 64 5-65'	09/03/2004 09:17	Soil	11
SB2, 74 5-75'	09/03/2004 09:45	Soil	13
SB2, 79 5-80'	09/03/2004 10:00	Soil	14
SB2, 89 5-90'	09/03/2004 10:57	Soil	16

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2, 64.5-65'**	Lab ID:	2004-09-0191 - 11
Sampled:	09/03/2004 09:17	Extracted:	9/10/2004 19:20
Matrix:	Soil	QC Batch#:	2004/09/10-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/10/2004 19:20	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/10/2004 19:20	
Benzene	ND	5.0	ug/Kg	1.00	09/10/2004 19:20	
Toluene	ND	5.0	ug/Kg	1.00	09/10/2004 19:20	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/10/2004 19:20	
Total xylenes	ND	5.0	ug/Kg	1.00	09/10/2004 19:20	
Surrogate(s)						
1,2-Dichloroethane-d4	102.4	72-124	%	1.00	09/10/2004 19:20	
Toluene-d8	101.6	75-116	%	1.00	09/10/2004 19:20	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2, 74.5-75'**	Lab ID:	2004-09-0191 - 13
Sampled:	09/03/2004 09:45	Extracted:	9/10/2004 19:43
Matrix:	Soil	QC Batch#:	2004/09/10-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1 00	09/10/2004 19:43	
Methyl tert-butyl ether (MTBE)	56	5.0	ug/Kg	1 00	09/10/2004 19:43	
Benzene	ND	5 0	ug/Kg	1 00	09/10/2004 19:43	
Toluene	ND	5.0	ug/Kg	1 00	09/10/2004 19:43	
Ethyl benzene	ND	5.0	ug/Kg	1 00	09/10/2004 19:43	
Total xylenes	ND	5.0	ug/Kg	1 00	09/10/2004 19:43	
Surrogate(s)						
1,2-Dichloroethane-d4	105 8	72-124	%	1 00	09/10/2004 19:43	
Toluene-d8	98 9	75-116	%	1 00	09/10/2004 19:43	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2, 79.5-80'**	Lab ID:	2004-09-0191 - 14
Sampled:	09/03/2004 10:00	Extracted:	9/10/2004 20:05
Matrix:	Soil	QC Batch#:	2004/09/10-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/10/2004 20:05	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/10/2004 20:05	
Benzene	ND	5.0	ug/Kg	1.00	09/10/2004 20:05	
Toluene	ND	5.0	ug/Kg	1.00	09/10/2004 20:05	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/10/2004 20:05	
Total xylenes	ND	5.0	ug/Kg	1.00	09/10/2004 20:05	
Surrogate(s)						
1,2-Dichloroethane-d4	110.7	72-124	%	1.00	09/10/2004 20:05	
Toluene-d8	98.0	75-116	%	1.00	09/10/2004 20:05	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2, 89.5-90'**	Lab ID:	2004-09-0191 - 16
Sampled:	09/03/2004 10:57	Extracted:	9/10/2004 20:27
Matrix:	Soil	QC Batch#:	2004/09/10-02.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1 00	09/10/2004 20:27	
Methyl tert-butyl ether (MTBE)	ND	5 0	ug/Kg	1 00	09/10/2004 20:27	
Benzene	ND	5 0	ug/Kg	1 00	09/10/2004 20:27	
Toluene	ND	5 0	ug/Kg	1 00	09/10/2004 20:27	
Ethyl benzene	ND	5 0	ug/Kg	1 00	09/10/2004 20:27	
Total xylenes	7 6	5 0	ug/Kg	1 00	09/10/2004 20:27	
Surrogate(s)						
1,2-Dichloroethane-d4	104 4	72-124	%	1 00	09/10/2004 20:27	
Toluene-d8	98 8	75-116	%	1 00	09/10/2004 20:27	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Soil — **QC Batch # 2004/09/10-02.66**

MB: 2004/09/10-02.66-008 — Date Extracted: 09/10/2004 18:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	09/10/2004 18:08	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	09/10/2004 18:08	
Benzene	ND	5.0	ug/Kg	09/10/2004 18:08	
Toluene	ND	5.0	ug/Kg	09/10/2004 18:08	
Ethyl benzene	ND	5.0	ug/Kg	09/10/2004 18:08	
Total xylenes	ND	5.0	ug/Kg	09/10/2004 18:08	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	72-124	%	09/10/2004 18:08	
Toluene-d8	97.8	75-116	%	09/10/2004 18:08	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/10-02.66**

LCS 2004/09/10-02.66-023 Extracted: 09/10/2004 Analyzed: 09/10/2004 17:23
LCSD 2004/09/10-02.66-046 Extracted: 09/10/2004 Analyzed: 09/10/2004 17:46

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	48.2	51.0	50.0	96.4	102.0	5.6	65-165	20		
Benzene	53.5	53.4	50.0	107.0	106.8	0.2	69-129	20		
Toluene	51.6	48.6	50.0	103.2	97.2	6.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	461	443	500	92.2	88.6		72-124			
Toluene-d8	500	490	500	100.0	98.0		75-116			

SEVERN TRENT STL

Submission: 2004-09-0191

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB2, 80'	09/03/2004 10:15	Water	17

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SB2, 80'**	Lab ID:	2004-09-0191 - 17
Sampled:	09/03/2004 10:15	Extracted:	9/14/2004 12:25
Matrix:	Water	QC Batch#:	2004/09/14-01.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	140	50	ug/L	1.00	09/14/2004 12:25	
Methyl tert-butyl ether (MTBE)	6.9	0.50	ug/L	1.00	09/14/2004 12:25	
Benzene	2.7	0.50	ug/L	1.00	09/14/2004 12:25	
Toluene	7.6	0.50	ug/L	1.00	09/14/2004 12:25	
Ethylbenzene	3.1	0.50	ug/L	1.00	09/14/2004 12:25	
Total xylenes	15	1.0	ug/L	1.00	09/14/2004 12:25	
Surrogate(s)						
1,2-Dichloroethane-d4	119.8	72-128	%	1.00	09/14/2004 12:25	
Toluene-d8	101.1	80-113	%	1.00	09/14/2004 12:25	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Water — **QC Batch # 2004/09/14-01.68**

MB: 2004/09/14-01.68-019 — Date Extracted: 09/14/2004 07:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/14/2004 07:19	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/14/2004 07:19	
Benzene	ND	0 5	ug/L	09/14/2004 07:19	
Toluene	ND	0 5	ug/L	09/14/2004 07:19	
Ethylbenzene	ND	0.5	ug/L	09/14/2004 07:19	
Total xylenes	ND	1 0	ug/L	09/14/2004 07:19	
Surrogates(s)					
1,2-Dichloroethane-d4	103 4	72-128	%	09/14/2004 07:19	
Toluene-d8	97.8	80-113	%	09/14/2004 07:19	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/09/14-01.68**

LCS 2004/09/14-01.68-041 Extracted: 09/14/2004 Analyzed: 09/14/2004 06:41
LCSD 2004/09/14-01.68-000 Extracted: 09/14/2004 Analyzed: 09/14/2004 07:00

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.0	25.8	25.0	100.0	103.2	3.1	65-165	20		
Benzene	24.5	25.1	25.0	98.0	100.4	2.4	69-129	20		
Toluene	23.5	22.5	25.0	94.0	90.0	4.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	472	464	500	94.4	92.8		72-128			
Toluene-d8	502	476	500	100.4	95.2		80-113			

2004-09-0191

SEVERN TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 88560

Date 9/2/04 Page 1 of ____

Report To

Attn: S. PRALL

Company: ETIC

Address: 2285 MORELLO AVE, PLEASANT HILL

Phone: (925) 602-4718 Email: sprall@eticeng.com

Bill To: ETIC

Sampled By: BRYAN GIVEN

Attn:

Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015M/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) TCLP ☐ ☐	Hexavalent Chromium pH (24h hold time for H2O) ☐ ☐	Spec Cond. ☐ Alkalinity TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4	HOLD		Number of Containers
SB2, 14.5-15'	9/2/04	744	S	ice																		X		
SB2, 19.5-20'	↓	751	S	↓																		X		
SB2, 24.5-25'	↓	800	↓	↓																		X		
SB2, 29.5-30'	↓	805	↓	↓																		X		
SB2, 34.5-35	↓	812	↓	↓																		X		
SB2, 39.5-40	↓	820	↓	↓																		X		
SB2, 44.5-45'	↓	827	↓	↓																		X		
SB2, 49.5-50	↓	846	↓	↓																		X		
SB2, 53.5-54'	↓	850	↓	↓																		X		
SB2, 59.5-60'	↓	900	↓	↓																		X		

Project Info. / **Sample Receipt**

Project Info.	Sample Receipt
Project Name: OLYMPIC	# of Containers:
Project#: TMOLYMP4	Head Space:
PO#: 4105	Temp: 21
Credit Card#:	Conforms to record:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1802	Signature: Time:	Signature: Time:
Printed Name: BRYAN GIVEN Date: 9/2	Printed Name: Date:	Printed Name: Date:
Company: ETIC	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Time:	Signature: Time:	Signature: [signature] Time: 1802
Printed Name: Date:	Printed Name: Date:	Printed Name: Joan Mullen Date: 9-3-04
Company:	Company:	Company: STL SF

T.A.T.: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ________

Special Instructions / Comments:

*STL SF reports 8015M from C9-C24 (industry norm). Default for 8015B is C10-C28

Rev 05/04

2004-09-0191

SEVERN TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: ____________

Date 9/3/04 Page 2 of 2

Report To

Attn: S. Frazl
Company: ETIC
Address: 2285 Morello Ave, Pleasant Hill
Phone: (925) 602-4710 Email: sprazl@eticeng.com
Bill To: ETIC
Sampled By: Bryan Gilbert
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - 8015B/8021 ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	W.E.T (STLC) TCLP ☐ ☐	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond. ☐ Alkalinity TSS ☐ TDS ☐ ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4		HOLD		Number of Containers
SB2, 64.5-65'	9/3/04	0915	S	ICE																			X		
SB2, 69.5-70'	↓	0930	↓	↓																			X		
SB2, 74.5-75'		0945																					X		
SB2, 79.5-80'		1000																					X		
SB2, 84.5-85'		1010																					X		
SB2, 89.5-90'	↓	1037	↓	↓																			X		
SB2, [illegible]		1035	W	HCl																			X		

Project Info. / **Sample Receipt**

Project Name: OLYMPIC
Project #: TMOLMTH
PO#: 4105
Credit Card #:

# of Containers:
Head Space:
Temp: 21
Conforms to record:

T A T: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID: ______
Special Instructions / Comments:

1) Relinquished by: [signature] 1502
Signature Time
BRYAN GILBERT 9/3
Printed Name Date
ETIC
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Signature Time
Printed Name Date
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by: [signature] 1502
Signature Time
Joan Mullen 9-3-04
Printed Name Date
STL SF
Company

*STL SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}.

Sidhu, Surinder 2004.09.0191

From: Sharris Prall [SPrall@eticeng.com]
Sent: Tuesday, September 07, 2004 1:22 PM
To: Sidhu, Surinder
Subject: 9/3/04 soil/gw samples, Olympic, TMOLMT4, PO 4105

For SB1, the following samples need to be analyzed by 8260 for TPHg, BTEX, and MTBE:

39.5-40 soil
49.5-50 soil
59.5-60 soil
69.5-70 soil
94.5-95 soil
SB1, 80' groundwater

For SB2, the following samples need to be analyzed by 8260 for TPHg, BTEX, and MTBE:

64.5-65 soil
74.5-75 soil
79.5-80 soil
89.5-90 soil
SB2, 80 groundwater

S1,S2,S3, S4 need to be composited and tested by 8260 for TPHg, BTEX, and MTBE and for lead.

Thank you for your assistance!

Sincerely,
Sharris Prall
Project Manager

Sharris Prall
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
Tel: 925-602-4710, Ext. 20
FAX: 925-602-4720
sprall@eticeng.com

SEVERN TRENT STL

Submission#: 2004-09-0192

ETIC Pleasant Hill

September 14, 2004

2285 Morello Avenue
Pleasant Hill, CA 94523

Attn.: Sherris Prall

Project#: TMOLMT4
Project: Olympic

Dear Ms. Prall,

Attached is our report for your samples received on 09/03/2004 15:02
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/18/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,

Surinder Sidhu
Project Manager

SEVERN TRENT STL

Submission: 2004-09-0192

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S(1-4)	09/03/2004	Soil	1

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**S(1-4)**	Lab ID:	2004-09-0192 - 1
Sampled:	09/03/2004	Extracted:	9/13/2004 14:01
Matrix:	Soil	QC Batch#:	2004/09/13-01.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	09/13/2004 14:01	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	09/13/2004 14:01	
Benzene	ND	5.0	ug/Kg	1.00	09/13/2004 14:01	
Toluene	ND	5.0	ug/Kg	1.00	09/13/2004 14:01	
Ethyl benzene	ND	5.0	ug/Kg	1.00	09/13/2004 14:01	
Total xylenes	ND	5.0	ug/Kg	1.00	09/13/2004 14:01	
Surrogate(s)						
1,2-Dichloroethane-d4	103.7	72-124	%	1.00	09/13/2004 14:01	
Toluene-d8	100.6	75-116	%	1.00	09/13/2004 14:01	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn.: Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Soil — **QC Batch # 2004/09/13-01.66**

MB: 2004/09/13-01.66-029 — Date Extracted: 09/13/2004 07:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	09/13/2004 07:29	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	09/13/2004 07:29	
Benzene	ND	5.0	ug/Kg	09/13/2004 07:29	
Toluene	ND	5.0	ug/Kg	09/13/2004 07:29	
Ethyl benzene	ND	5.0	ug/Kg	09/13/2004 07:29	
Total xylenes	ND	5.0	ug/Kg	09/13/2004 07:29	
Surrogates(s)					
1,2-Dichloroethane-d4	98.0	72-124	%	09/13/2004 07:29	
Toluene-d8	96.6	75-116	%	09/13/2004 07:29	

Fuel Oxygenates by 8260B

ETIC Pleasant Hill

Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/13-01.66**

LCS 2004/09/13-01.66-044 Extracted: 09/13/2004 Analyzed: 09/13/2004 06:44

LCSD 2004/09/13-01.66-006 Extracted: 09/13/2004 Analyzed: 09/13/2004 07:06

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	51.9	55.1	50.0	103.8	110.2	6.0	65-165	20		
Benzene	53.5	56.9	50.0	107.0	113.8	6.2	69-129	20		
Toluene	48.5	48.4	50.0	97.0	96.8	0.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443	476	500	88.6	95.2		72-124			
Toluene-d8	480	486	500	96.0	97.2		75-116			

Fuel Oxygenates by 8260B

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Soil** — **QC Batch # 2004/09/13-01.66**

S(1-4) >> MS — Lab ID: 2004-09-0192 - 001

MS: 2004/09/13-01.66-046 — Extracted: 09/13/2004 — Analyzed: 09/13/2004 11:46 — Dilution: 1.00

MSD: 2004/09/13-01.66-016 — Extracted: 09/13/2004 — Analyzed: 09/13/2004 13:16 — Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	52 9	59 9	ND	43.0	123 0	134 3	8 8	65-165	20		
Benzene	49 6	57 3	ND	43 0	115 3	128 5	10 8	69-129	20		
Toluene	42 8	47 4	ND	43 0	99 5	106 3	6 6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	491	555		500	98 2	111 0		72-124			
Toluene-d8	514	496		500	102 8	99 2		75-116			

SEVERN TRENT STL

Submission: 2004-09-0192

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S(1-4)	09/03/2004	Soil	1

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**S(1-4)**	Lab ID:	2004-09-0192 - 1
Sampled:	09/03/2004	Extracted:	9/8/2004 06:07
Matrix:	Soil	QC Batch#:	2004/09/08-03.15

Analysis Flag: . (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.1	1.0	mg/Kg	1.00	09/08/2004 11:12	

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 3050B — Test(s): 6010B
Method Blank — **Soil** — **QC Batch # 2004/09/08-03.15**
MB: 2004/09/08-03.15-028 — Date Extracted: 09/08/2004 06:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	09/08/2004 10:48	

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/08-03.15**

LCS 2004/09/08-03.15-029 Extracted: 09/08/2004 Analyzed: 09/08/2004 10:52
LCSD 2004/09/08-03.15-030 Extracted: 09/08/2004 Analyzed: 09/08/2004 10:56

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	94.8	94.5	100.0	94.8	94.5	0.3	80-120	20		

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/09/08-03.15**

S(1-4) >> MS

Lab ID: 2004-09-0192 - 001

MS: 2004/09/08-03.15-038 Extracted: 09/08/2004

Analyzed: 09/08/2004 11:16

Dilution: 1.00

MSD: 2004/09/08-03.15-039 Extracted: 09/08/2004

Analyzed: 09/08/2004 11:19

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	69 2	69 5	3 12	98 0	67.4	67 7	0 4	75-125	20	mso	mso

Total Lead

ETIC Pleasant Hill
Attn : Sherris Prall

2285 Morello Avenue
Pleasant Hill, CA 94523
Phone: (925) 602-4710 Fax: (925) 602-4720

Project: TMOLMT4
Olympic

Received: 09/03/2004 15:02

Legend and Notes

Analysis Flag

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.

2004-09.0192

SEVERN TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 88561

Date 9/3/04 Page 1 of 1

Report To

Attn: S. PEAL
Company: ETIC
Address: 2285 Morello, Pleasant [Hill]
Phone: (925) [illegible] Email: [illegible]
Bill To: ETIC
Sampled By: Bryan Gilbert
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015M/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ TSS ☐ Alkalinity ☐ TDS	Anions: ☐ Cl ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4		HOLD	Number of Containers
S1	9/3/04	1220	S	ice																			X	
S2	↓	1222	↓	↓																			X	
S3	↓	1224	↓	↓																			X	
S4	↓	1226	↓	↓																			X	

Project Info. / **Sample Receipt**

Project Name: OLYMPIC
Project#: TRACY[?]
PO#: 4105
Credit Card#:

# of Containers:
Head Space:
Temp: 21
Conforms to record:

T A T: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ________

Special Instructions / Comments:

1) Relinquished by: [signature] 1502
Signature Time
Bryan Gilbert 9/3/04
Printed Name Date
ETIC
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Signature Time
Printed Name Date
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by: Joan Mullen 1502
Signature Time
Joan Mullen 9-3-04
Printed Name Date
STL SF
Company

*STL SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015M is C_{10}-C_{28}.

2004-09-0192

Sidhu, Surinder

From: Sherris Prall [SPrall@eticeng.com]
Sent: Tuesday, September 07, 2004 1:22 PM
To: Sidhu, Surinder
Subject: 9/3/04 soil/gw samples, Olympic, TMO:MT4, PO 4105

For SB1, the following samples need to be analyzed by 8260 for TPHg, BTEX, and MTBE:

39.5-40 soil
49.5-50 soil
59.5-60 soil
69.5-70 soil
94.5-95 soil
SB1, 80' groundwater

For SB2, the following samples need to be analyzed by 8260 for TPHg, BTEX, and MTBE:

64.5-65 soil
74.5-75 soil
79.5-80 soil
89.5-90 soil
SB2, 80 groundwater

S1,S2,S3, S4 need to be composited and tested by 8260 for TPHg, BTEX, and MTBE and for lead.

Thank you for your assistance!

Sincerely,
Sherris Prall
Project Manager

Sherris Prall
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
Tel: 925-602-4710, Ext. 20
FAX: 925-602-4720
sprall@eticeng.com